EIC search

MRY

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=> FIL REG
FILE 'REGISTRY' ENTERED AT 15:51:04 ON 07 APR 2011
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COPYRIGHT (C) 2011 American Chemical Society (ACS)

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                POOPATHY"/AU OR "KUMARAVERL, MUTTULINGHAM"/AU OR "PARAMASWARA,
                GNANAMOLY"/AU OR "PARTHEEPAN, ARUMUGAM"/AU OR "PRICE, RICHARD"/
                AU OR "SELVARANJAN, SELVADURAI"/AU OR "SURENDRAKUMAR, SIVAGNANA
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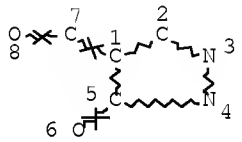


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS   1

STEREO ATTRIBUTES: NONE
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L21          20 SEA FILE=HCA SPE=ON  ABB=ON  PLU=ON  L18 OR L20
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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2011 AMERICAN CHEMICAL SOCIETY (ACS)
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L18 ANSWER 1 OF 4 HCA COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 145:198513 HCA Full-text

TITLE: Electroluminescent device fabrication by spin coating electroluminescent organometallic complexes on coated substrates

INVENTOR(S): Kathirgamanathan, Poopathy; Ganeshamurugan, Subramaniam; Price, Richard

PATENT ASSIGNEE(S): Oled-T Limited, UK

SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006077402	A1	20060727	WO 2006-GB169	20060119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1839464	A1	20071003	EP 2006-702771	20060119
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101107884	A	20080116	CN 2006-80002852	20060119
JP 2008529212	T	20080731	JP 2007-551736	20060119
US 20080160182	A1	20080703	US 2007-795007	20070710

IN 2007DN05397	A	20070817	IN 2007-DN5397		20070712
KR 2007102556	A	20071018	KR 2007-7018852		20070817
PRIORITY APPLN. INFO.:			GB 2005-1426	A	20050122
			WO 2006-GB169	W	20060119

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 145:198513

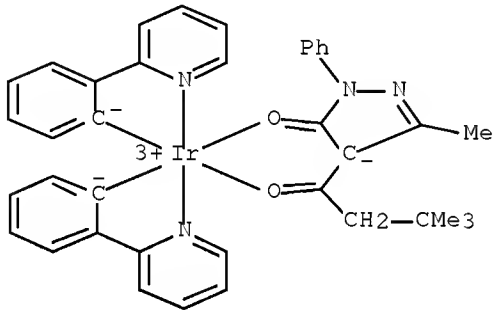
AB Methods of forming electroluminescent devices are described which entail depositing by spin coating a layer of an electroluminescent organometallic complex on a substrate (which is the anode) which is coated with a layer of a polymer. The polymer is preferably a conductive or charge-transporting polymer or material.

IT 647838-95-7

(electroluminescent device fabrication by spin coating electroluminescent organometallic complexes on coated substrates)

RN 647838-95-7 HCA

CN Iridium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis[2-(2-pyridinyl-κN)phenyl-κC]- (CA INDEX NAME)



IPCI H05B0033-14 [I,A]; H01L0051-50 [I,A]; H01L0051-56 [I,A]; C09K0011-06 [I,A]; H01L0051-30 [I,A]

IPCR H05B0033-14 [I,A]; C09K0011-06 [I,C]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-05 [I,C]; H01L0051-30 [I,A]; H01L0051-50 [I,C]; H01L0051-50 [I,A]; H01L0051-56 [I,A]; H05B0033-14 [I,C]

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 76

IT 86-73-7D, 9H-Fluorene, derivs. 159-66-0D, 9,9'-Spirobi[9H-fluorene], derivs. 193-44-2 905-62-4 1217-45-4, 9,10-Dicyanoanthracene 2085-33-8, Tris(8-hydroxyquinolinato)aluminum 4733-39-5, Bathocuproin 5521-31-3D, derivs. 7429-90-5, Aluminum, uses 7439-93-2, Lithium, uses 7439-95-4, Magnesium, uses 7440-03-1D, Niobium, compds. 7440-04-2D, Osmium, compds. 7440-05-3D, Palladium, compds. 7440-06-4D, Platinum, compds. 7440-16-6D, Rhodium, compds. 7440-18-8D, Ruthenium, compds. 7440-25-7D, Tantalum, compds. 7440-32-6D, Titanium, compds. 7440-39-3, Barium, uses 7440-58-6D, Hafnium, compds. 7440-62-2D, Vanadium, compds. 7440-70-2, Calcium, uses 7789-24-4, Lithium fluoride, uses 15082-28-7 17595-05-0 19414-67-6 23467-27-8 25067-59-8, Poly(vinylcarbazole) 25135-15-3D, derivs. 25233-30-1, Polyaniline 25387-93-3 26009-24-5, Poly(p-phenylenevinylene)- 31366-25-3D, derivs. 37271-44-6 58280-31-2 58328-31-7, CBP 58328-31-7D, derivs. 65181-78-4, N,N'-Diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-diamine 66946-48-3D, derivs. 95270-88-5D, derivs. 98038-22-3, Aniline-m-sulfanilic acid copolymer 121220-44-8, o-Ethylaniline-o-toluidine copolymer 123847-85-8 124729-98-2

126415-16-5, Aniline-o-anisidine copolymer 126415-18-7, o-Aminophenol-aniline copolymer 126415-20-1, o-Aminophenol-o-toluidine copolymer 126415-22-3, o-Phenylenediamine-o-toluidine copolymer 135804-06-7 138372-67-5 142289-08-5D, derivs. 146162-54-1 148044-16-0 148896-39-3 150405-69-9 157755-87-8 203642-12-0D, derivs. 214341-85-2D, derivs. 221455-80-7 300576-41-4 432042-07-4 432042-08-5 474974-61-3 474974-62-4 647838-95-7 861532-86-7D, [9,9'-Bianthracene]-10,10'-diamine, N-aryl derivs. 863714-50-5 902119-35-1
(electroluminescent device fabrication by spin coating electroluminescent organometallic complexes on coated substrates)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Eriyama, Y	2004			US 2004106006 A1	HCA
Kamatant, J	2003			US 2003224208 A1	HCA
Kathirgamanathan, P	2004			WO 2004084325 A	HCA

L18 ANSWER 2 OF 4 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 144:458233 HCA Full-text
TITLE: Electroluminescent devices with anode buffer layers
INVENTOR(S): Kathirgamanathan, Poopathy; Ganeshamurugan, Subramaniam; Kumaraverl, Muttulingham; Partheepan, Arumugam; Paramaswara, Gnanamoly
PATENT ASSIGNEE(S): Nuko 70 Limited, UK
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006048635	A1	20060511	WO 2005-GB4222	20051101
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1812530	A1	20070801	EP 2005-800128	20051101
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008519427	T	20080605	JP 2007-538521	20051101
US 20080199727	A1	20080821	US 2007-666766	20070625
PRIORITY APPLN. INFO.:			GB 2004-24294 A	20041103
			WO 2005-GB4222 W	20051101

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Electroluminescent devices are described which are provided with a buffer layer on the anode, the buffer material being selected from metal tetra-p-tolyl porphinato complexes and bianthryl compds. [9,9'-Bianthracene]-10,10'-

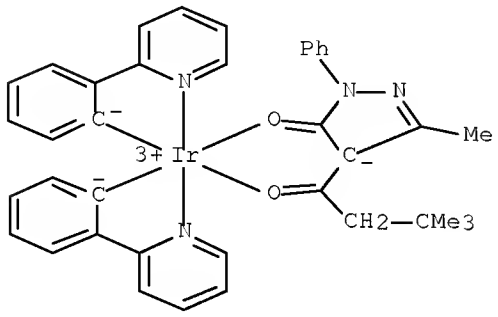
diamine, N,N'-di-2-naphthalenyl-N,N'-diphenyl- [223735-42-0] or [9,9'-Bianthracene]-10,10'-diamine, N,N'-di-1-naphthalenyl-N,N'-diphenyl-. The electroluminescent materials may be organometallic compds., including multinuclear complexes.

IT 647838-95-7

(electroluminescent devices with anode buffer layers)

RN 647838-95-7 HCA

CN Iridium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis[2-(2-pyridinyl-κN)phenyl-κC]- (CA INDEX NAME)



IPCI C09K0011-06 [I,A]; H01L0051-50 [I,A]

IPCR C09K0011-06 [I,A]; C09K0011-06 [I,C]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-50 [I,C]; H01L0051-50 [I,A]; H05B0033-14 [I,C*]; H05B0033-14 [I,A]; H05B0033-22 [I,C*]; H05B0033-22 [I,A]

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

Section cross-reference(s): 76

IT 2085-33-8, Tris(8-hydroxyquinolinato)aluminum 4733-39-5, Bathocuproin 7429-90-5, Aluminum, uses 7429-90-5D, Aluminum, compds. 7429-91-6D, Dysprosium, compds. 7439-88-5D, Iridium, compds. 7439-89-6D, Iron, compds. 7439-92-1D, Lead, compds. 7439-93-2, Lithium, uses 7439-93-2D, Lithium, compds. 7439-94-3D, Lutetium, compds. 7439-95-4, Magnesium, uses 7439-95-4D, Magnesium, compds. 7439-96-5D, Manganese, compds. 7439-98-7D, Molybdenum, compds. 7440-00-8D, Neodymium, compds. 7440-02-0D, Nickel, compds. 7440-03-1D, Niobium, compds. 7440-04-2D, Osmium, compds. 7440-05-3D, Palladium, compds. 7440-06-4D, Platinum, compds. 7440-09-7D, Potassium, compds. 7440-10-0D, Praseodymium, compds. 7440-12-2D, Promethium, compds. 7440-16-6D, Rhodium, compds. 7440-17-7D, Rubidium, compds. 7440-18-8D, Ruthenium, compds. 7440-19-9D, Samarium, compds. 7440-22-4D, Silver, compds. 7440-23-5D, Sodium, compds. 7440-24-6D, Strontium, compds. 7440-25-7D, Tantalum, compds. 7440-27-9D, Terbium, compds. 7440-30-4D, Thulium, compds. 7440-31-5D, Tin, compds. 7440-32-6D, Titanium, compds. 7440-36-0D, Antimony, compds. 7440-39-3D, Barium, compds. 7440-41-7D, Beryllium, compds. 7440-42-8D, Boron, compds. 7440-43-9D, Cadmium, compds. 7440-45-1D, Cerium, compds. 7440-46-2D, Cesium, compds. 7440-47-3D, Chromium, compds. 7440-48-4D, Cobalt, compds. 7440-50-8D, Copper, compds. 7440-52-0D, Erbium, compds. 7440-53-1D, Europium, compds. 7440-54-2D, Gadolinium, compds. 7440-55-3D, Gallium, compds. 7440-56-4D, Germanium, compds. 7440-57-5D, Gold, compds. 7440-60-0D, Holmium, compds. 7440-61-1D, Uranium, compds. 7440-62-2D, Vanadium, compds. 7440-64-4D, Ytterbium, compds. 7440-65-5D, Yttrium, compds. 7440-67-7D, Zirconium, compds. 7440-70-2, Calcium, uses 7440-70-2D, Calcium, compds. 7440-74-6D, Indium, compds. 14405-36-8 15133-54-7

17457-88-4 21333-45-9 21392-78-9 23467-27-8 24911-10-2
25067-59-8, Poly(vinylcarbazole) 26009-24-5, Poly(p-phenylenevinylene)
37271-44-6 50851-57-5 58280-31-2 58328-31-7, CBP 63448-47-5
65181-78-4, N,N'-Diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-
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223735-42-0 386223-21-8 432042-07-4 647838-95-7
873428-96-7 885502-27-2 885502-29-4 885502-30-7 885502-32-9
(electroluminescent devices with anode buffer layers)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1999	1999		PATENT ABSTRACTS OF	
Aziz, H	2004			US 2004018381 A1	
Eastman Kodak Company	1988			EP 0278758 A	HCA
Hu, N	2003			US 6670054 B1	HCA
Lg Electronics Inc	2003			EP 1317005 A	HCA
Toyo Ink Mfg Co Ltd	1999			JP 11265788 A	HCA

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L18 ANSWER 3 OF 4 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 143:275247 HCA Full-text
TITLE: Electroluminescent organometallic materials and their preparation and devices using them
INVENTOR(S): Kathirgamanathan, Poopathy; Price, Richard; Ganeshamurugan, Subramaniam; Paramaswara, Gnanamoly; Kumaraverl, Muttulingham; Partheepan, Arumugam; Selvaranjan, Selvadurai; Antipan-Lara, Juan; Surendrakumar, Sivagnanasundram
PATENT ASSIGNEE(S): Elam-T Limited, UK
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080526	A2	20050901	WO 2005-GB446	20050210
WO 2005080526	A3	20051103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1723213	A2	20061122	EP 2005-708271	20050210
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007524680	T	20070830	JP 2006-552679	20050210
KR 2007004719	A	20070109	KR 2006-7018827	20060914
US 20090009060	A1	20090108	US 2007-589183	20070808

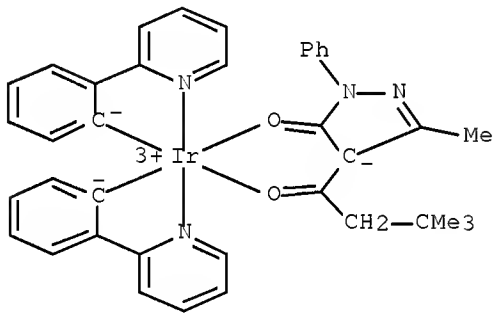
PRIORITY APPLN. INFO.: GB 2004-3322 A 20040214
WO 2005-GB446 W 20050210
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:275247

AB Electroluminescent compds. are described by the general formula I, II, and III (R1-6 = independently selected H, (un)substituted hydrocarbyl groups such as (un)substituted aliphatic groups, (un)substituted aromatic, heterocyclic and polycyclic ring structures, fluorocarbons such as trifluoryl Me groups, halogens such as F, or thiophenyl groups; R1, R2 and R3 can form (un)substituted fused aromatic, heterocyclic and polycyclic ring structures and can be copolymerizable with a monomer, e.g. styrene; M = ruthenium, rhodium, palladium, osmium, iridium, or platinum; and n+2 is the valency of M). Methods of preparing the compds. are also described which entail reacting a bridged complex with an appropriate ligand. Electroluminescent devices employing the materials are also described.

IT 647838-95-7P 863714-47-0P 863714-48-1P
863714-49-2P
(electroluminescent organometallic materials and their preparation and devices using them)

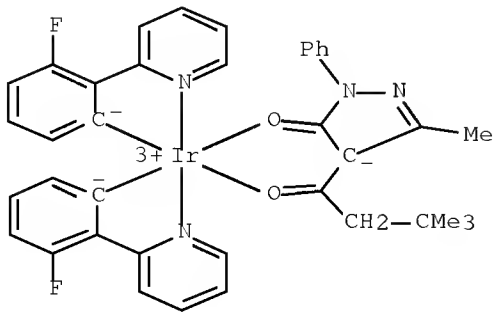
RN 647838-95-7 HCA

CN Iridium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis[2-(2-pyridinyl-κN)phenyl-κC]- (CA INDEX NAME)

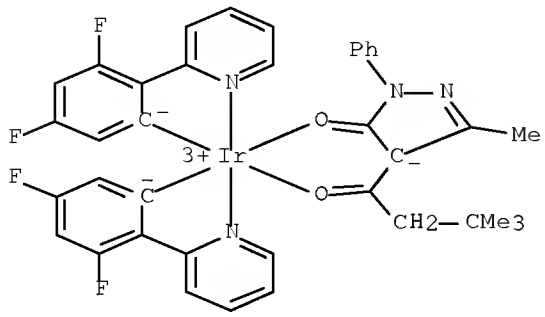


RN 863714-47-0 HCA

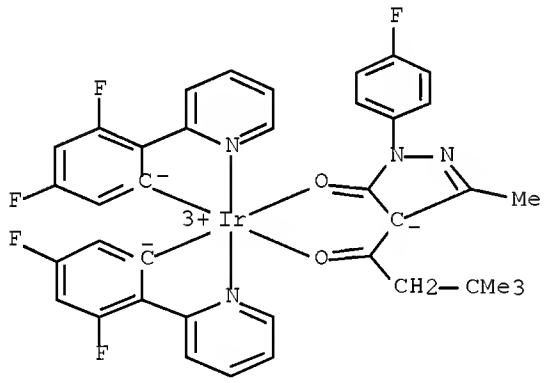
CN Iridium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis[3-fluoro-2-(2-pyridinyl-κN)phenyl-κC]- (CA INDEX NAME)



RN 863714-48-1 HCA
CN Iridium, bis[3,5-difluoro-2-(2-pyridinyl-κN)phenyl-κC][4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)



RN 863714-49-2 HCA
CN Iridium, bis[3,5-difluoro-2-(2-pyridinyl-κN)phenyl-κC][4-[3,3-dimethyl-1-(oxo-κO)butyl]-2-(4-fluorophenyl)-2,4-dihydro-5-methyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)



IPCI C09K0011-06 [ICM,7]; H01L0051-30 [ICS,7]; H01L0051-05 [ICS,7,C*]
IPCR C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [N,C*]; H01L0051-00 [N,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-50 [I,C*]; H01L0051-50 [I,A]
CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 29, 76
IT 7440-04-2DP, Osmium, compds. 7440-05-3DP, Palladium, compds. 7440-06-4DP, Platinum, compds. 7440-16-6DP, Rhodium, compds. 7440-18-8DP, Ruthenium, compds. 647838-95-7P 863714-47-0P 863714-48-1P 863714-49-2P 863714-50-5P 863714-51-6P 863714-52-7P 863714-54-9P
(electroluminescent organometallic materials and their preparation and devices using them)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File

Anon				US 20010019782 A1
Anon				US 20020190250 A1

L18 ANSWER 4 OF 4 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 140:114240 HCA Full-text
TITLE: Metal chelates in a photovoltaic device
INVENTOR(S): Kathirgamanathan, Poopathy; Antipan-Lara, Juan; Partheepan, Arumugam
PATENT ASSIGNEE(S): Elam-Limited, UK
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004008554	A2	20040122	WO 2003-GB3035	20030714
WO 2004008554	A3	20041111		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003281003	A1	20040202	AU 2003-281003	20030714
PRIORITY APPLN. INFO.:			GB 2002-16154 A	20020712
			WO 2003-GB3035 W	20030714

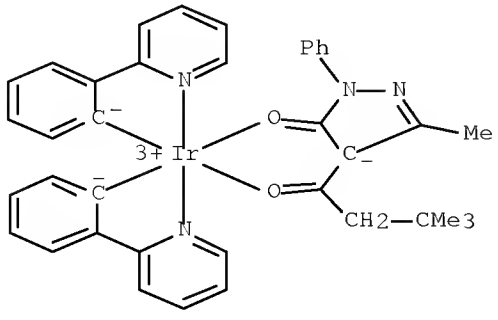
OTHER SOURCE(S): MARPAT 140:114240

AB A photovoltaic device uses a metal chelate as the photovoltaic element. The device comprises sequentially (1) a first electrode comprising a metal, (2) the photovoltaic element, and (3) a second electrode. The photovoltaic element comprises an organometallic complex with an organic ligand and a metal (a rare earth, transition metal, lanthanide, or an actinide).

IT 647838-95-7
(metal chelates in photovoltaic device)

RN 647838-95-7 HCA

CN Iridium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis[2-(2-pyridinyl-κN)phenyl-κC]- (CA INDEX NAME)



IPCI H01L0051-20 [ICM,7]; H01L0051-30 [ICS,7]; H01L0051-05 [ICS,7,C*]
IPCR H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-40 [N,A]
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 74, 76
IT 147-14-8, Copper phthalocyanine 2085-33-8 7429-90-5, Aluminum, uses 7429-90-5D, Aluminum, complex 7439-88-5D, Iridium, complex 7439-89-6D, Iron, complex 7439-92-1D, Lead, complex 7439-93-2D, Lithium, complex 7439-95-4D, Magnesium, complex 7439-96-5D, Manganese, complex 7439-98-7D, Molybdenum, complex 7440-02-0D, Nickel, complex 7440-03-1D, Niobium, complex 7440-04-2D, Osmium, complex 7440-05-3D, Palladium, complex 7440-06-4D, Platinum, complex 7440-09-7D, Potassium, complex 7440-16-6D, Rhodium, complex 7440-17-7D, Rubidium, complex 7440-18-8D, Ruthenium, complex 7440-20-2D, Scandium, complex 7440-22-4D, Silver, complex 7440-23-5D, Sodium, complex 7440-24-6D, Strontium, complex 7440-25-7D, Tantalum, complex 7440-31-5D, Tin, complex 7440-32-6D, Titanium, complex 7440-36-0D, Antimony, complex 7440-39-3D, Barium, complex 7440-41-7D, Beryllium, complex 7440-42-8D, Boron, complex 7440-43-9D, Cadmium, complex 7440-46-2D, Cesium, complex 7440-47-3D, Chromium, complex 7440-48-4D, Cobalt, complex 7440-50-8D, Copper, complex 7440-55-3D, Gallium, complex 7440-56-4D, Germanium, complex 7440-57-5D, Gold, complex 7440-62-2D, Vanadium, complex 7440-65-5D, Yttrium, complex 7440-66-6D, Zinc, complex 7440-67-7D, Zirconium, complex 7440-70-2D, Calcium, complex 7440-74-6D, Indium, complex 7789-24-4, Lithium fluoride, uses 14913-52-1D, Neodymium(3+), complex, uses 15956-38-4 16910-54-6D, Europium(2+), complex, uses 17457-88-4 18472-30-5D, Erbium(3+), complex, uses 18581-58-3 18923-26-7D, Cerium(3+), complex, uses 18923-27-8D, Ytterbium(3+), complex, uses 21392-78-9 22541-14-6D, Praseodymium(3+), complex, uses 22541-16-8D, Promethium(3+), complex, uses 22541-17-9D, Samarium(3+), complex, uses 22541-18-0D, Europium(3+), complex, uses 22541-19-1D, Gadolinium(3+), complex, uses 22541-20-4D, Terbium(3+), complex, uses 22541-21-5D, Dysprosium(3+), complex, uses 22541-22-6D, Holmium(3+), complex, uses 22541-23-7D, Thulium(3+), complex, uses 22541-24-8D, Lutetium(3+), complex, uses 22578-81-0D, Uranium(3+), complex, uses 25387-93-3 65181-78-4, N,N'-Diphenyl-N,N'-bis(3-methylphenyl)-1,1'-biphenyl-4,4'-diamine 114206-51-8 156882-92-7 647838-95-7
(metal chelates in photovoltaic device)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon				WO 0243444 A2	HCA
Anon				EP 0556005 A1	HCA
Anon				US 6153824 A	HCA
Anon				US 6310282 B1	HCA

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

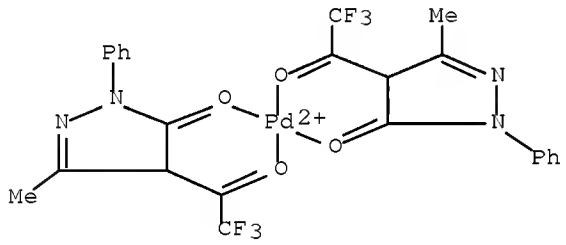
=> D L20 1-16 IBIB ABS HITSTR HITIND RETABLE

L20 ANSWER 1 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 142:488306 HCA Full-text
TITLE: Association Behavior of 4-Acylpyrazolone Derivative and Tertiary Amine of High Molecular Weight in Antagonistic Synergistic Extraction of Palladium

AUTHOR(S): Zhang, Anyun; Wanyan, Guanghui; Kumagai, Mikio
CORPORATE SOURCE: Nuclear Chemistry and Chemical Engineering Center, Institute of Research and Innovation (IRI), Kashiwa, Chiba-ken, 277-0861, Japan
SOURCE: Journal of Solution Chemistry (2004), 33(8), 1017-1028
CODEN: JSLCAG; ISSN: 0095-9782
PUBLISHER: Springer Science+Business Media, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To find an effective extraction and removal method for palladium(II), which is one of the main fission products from an acidic nuclear spent fuel solution, the extraction behavior of palladium(II) from a nitric acid medium by an acidic chelating extractant, 1-phenyl-3-methyl-4-trifluoroacetylpyrazolone-5-one (HPMTP) and a tertiary amine of high mol. weight, tri-n-octylamine (TOA), has been studied by spectrophotometry. A noticeable antagonistic extraction effect was observed in the extraction system under the given conditions. To understand this phenomenon, a preliminary investigation was performed to explain the mechanism of this reaction. According to the theory of corresponding solns. (TCS), the association reaction between HPMTP and TOA is proposed in the organic phase. An associated species, HPMTP·TOA, formed through hydrogen bonding in a chloroform medium might be the main reason why an antagonistic extraction effect occurred. The association constant between HPMTP and TOA was calculated to be 2.86 ± 0.05.

IT 851853-56-0P
(preparation of palladium complex with fluoroacylpyrazolone derivative)
RN 851853-56-0 HCA
CN Palladium(2+), bis[2,4-dihydro-5-methyl-2-phenyl-4-(trifluoroacetyl-κO)-3H-pyrazol-3-one-κO3]- (9CI) (CA INDEX NAME)



CC 68-2 (Phase Equilibriums, Chemical Equilibriums, and Solutions)
Section cross-reference(s): 71, 73
IT 851853-56-0P
(preparation of palladium complex with fluoroacylpyrazolone derivative)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Horwitz, E	1997	33	25	Reactive and Functio	HCA
Horwitz, E	1991	9	1	Solvent Extr Ion Exc	HCA
Jensen, B	1959	13	1668	Acta Chem Scand	HCA
Kolarik, Z	1999	17	1155	Solvent Extr Ion Exc	HCA
Koma, Y	1998	16	1357	Solvent Extr Ion Exc	HCA
Law, J	2001	19	23	Solvent Extr Ion Exc	HCA
Law, J	1999	19	27	Waste Management	HCA
Li, X	1993	12	2021	Polyhedron	HCA
Madic, C	2002		27	JAERI-Conf 2002-004	HCA

Margenk, Z	1983		353	Spectrophotometric D	
Mirza, M	1979	41	772	J Inorg Nucl Chem	HCA
Mukai, H	1997	13	145	Anal Sci	HCA
Nagasaki, S	1994	12	459	Solvent Extr Ion Exc	HCA
Pokhitonov, V	2003			Proceedings of 2003	
Reddy, M	2000	18	1135	Solvent Extr Ion Exc	HCA
Romanovskiy, V	2001	19	1	Solvent Extr Ion Exc	HCA
Schulz, W	1988	23	1191	Sep Sci Technol	HCA
Uchiyama, G	2002		197	JAERI-Conf 2002-004	HCA
Uehara, A	2001	17	1045	Anal Sci	
Umetani, S	1985	1	55	Anal Sci	HCA
Wei, Y	2004	41	315	J Nucl Sci Technol	HCA
Wood, D	1997	32	241	Sep Sci Technol	HCA
Zhang, A	1996		42	Chemistry	HCA
Zhang, A	1996		50	Chemistry	
Zhang, A		72		Radiat Phys Chem (in	
Zhang, A	2003	21	591	Solvent Extr Ion Exc	HCA

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

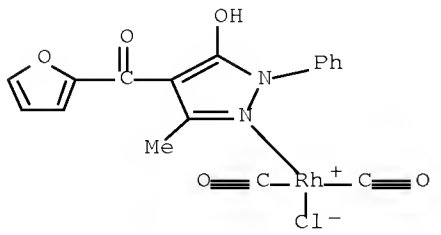
L20 ANSWER 2 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 141:198940 HCA Full-text
TITLE: A 4-acyl-5-pyrazolone ligand (HQ) in N-unidentate coordination mode in a Rh(CO)2Cl(HQ)-type complex
AUTHOR(S): Cingolani, Augusto; Marchetti, Fabio; Pettinari, Claudio; Pettinari, Riccardo; Skelton, Brian W.; White, Allan H.
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita degli Studi di Camerino, Camerino, MC, I-62032, Italy
SOURCE: Inorganic Chemistry Communications (2004), 7(2), 235-237
CODEN: ICCOFP; ISSN: 1387-7003
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:198940

AB Rh(CO)2Cl(HQ) (HQ = 4-acylpyrazolone), the ligand being bonded in N-unidentate fashion, was synthesized and structurally characterized. [Rh(CO)2Q] and [CpRhQCl] were also prepared The crystal structure of HQ was also determined

IT 737787-67-6P
(preparation and crystal structure of)

RN 737787-67-6 HCA

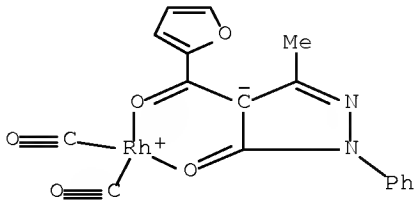
CN Rhodium, dicarbonylchloro[2-furanyl(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl-κN2)methanone]-, (SP-4-3)- (CA INDEX NAME)



IT 737787-66-5P 737787-68-7P
(preparation of)

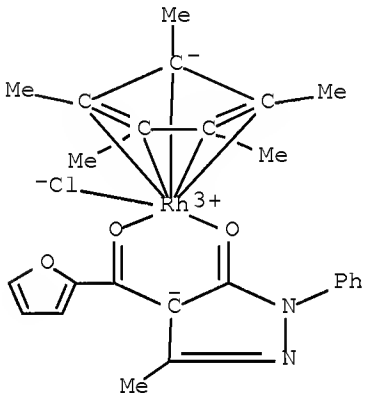
RN 737787-66-5 HCA

CN Rhodium, dicarbonyl[4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]-, (SP-4-3)- (CA INDEX NAME)



RN 737787-68-7 HCA

CN Rhodium, chloro[4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]- (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 75

IT 737787-67-6P
(preparation and crystal structure of)

IT 737787-66-5P 737787-68-7P
(preparation of)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Arndtsen, B	1995	270	1970	Science	HCA
Barbera, J	1999	38	3085	Inorg Chem	HCA
Bonati, F	1964		3156	J Chem Soc	HCA
Bonati, F	1985	4	357	Polyhedron	HCA
Chaloner, P	1994		1	Homogeneous Hydrogen	
Cingolani, A	2003			J Organomet Chem, su	
Huq, F	1974	4	411	J Cryst Mol Struct	HCA
Maitlis, P	1981	10	1	Chem Soc Rev	HCA
Pettinari, C	2001	4	290	Inorg Chem Commun	HCA
Pettinari, C	2002	651	5	J Organomet Chem	HCA
Pignolet, L	1983			Homogeneous Catalysi	

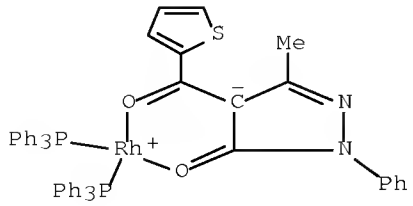
Trzeciak, A |1999 |190-1|883 |Coord Chem Rev |HCA
Westcott, S |1992 |114 |8863 |J Am Chem Soc |HCA
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L20 ANSWER 3 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 140:156103 HCA Full-text
TITLE: Reactivity of rhodium-β-diketonato cyclooctadiene derivatives with mono- and di-phosphines. Synthesis, structural and spectroscopic characterization of Rh(I) and Rh(III) species containing unsymmetrical β-diketonate and P-donor ligands
AUTHOR(S): Pettinari, Claudio; Marchetti, Fabio; Pettinari, Riccardo; Pizzabiocca, Adriano; Drozdov, Andrei; Troyanov, Sergey I.; Vertlib, Vyatcheslav
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita degli Studi, Camerino, 62032, Italy
SOURCE: Journal of Organometallic Chemistry (2003), 688(1-2), 216-226
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:156103

AB From the reaction of [Rh(Q)(1,5-cod)] (HQ = 1-phenyl-3-methyl-4-R-pyrazol-5-one: R = 2-thenoyl (HQS) or 2-furanoyl (HQO)) with PPh3, 1,2-bis(diphenylphosphino)ethane (dppe) or 1,3-bis(diphenylphosphino)propane (dppp) in anhydrous solvents under N2, [Rh(Q)(PPh3)2], [Rh(dppe)2](Q) (Q = QS or QO), and [Rh(dppp)(QO)] were obtained. The reactions of [Rh(QS)(1,5-cod)] with CH3I, I2, HCl and C3H5Br in the presence of PPh3 were also studied. All compds. obtained were characterized by elemental analyses, FTIR, ESI-MS spectroscopy, 1H-, 31P- and in selected cases by 13C-NMR spectroscopy. [Rh(QS)(PPh3)2], [Rh(dppe)2](QS), [Rh(QO)(dppp)] and [Rh(QS)Cl2(PPh3)2], were also characterized in the solid state by single crystal x-ray diffraction. In the air oxidation of [Rh(Q)(PR3)2] and [Rh(QO)(dppp)] occurred, species containing a η2-peroxo group being always identified.

IT 651301-17-6P 651301-21-2P 651301-38-1P
651301-40-5P
(preparation and crystal structure of)

RN 651301-17-6 HCA
CN Rhodium, [2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (SP-4-3)- (CA INDEX NAME)

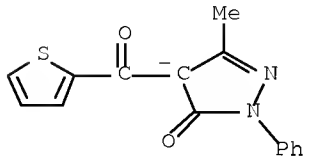


RN 651301-21-2 HCA
CN Rhodium(1+), bis[1,2-ethanediylbis[diphenylphosphine-κP]]-, (SP-4-1)-, salt with 2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl)-

3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

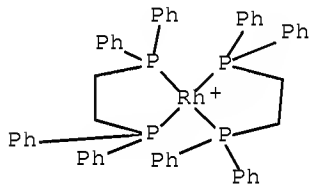
CM 1

CRN 429655-52-7
CMF C15 H11 N2 O2 S

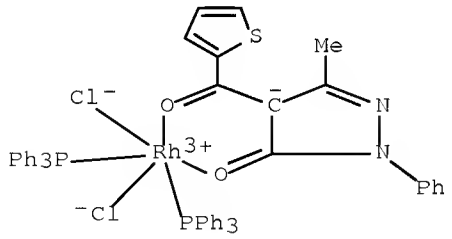


CM 2

CRN 47895-57-8
CMF C52 H48 P4 Rh
CCI CCS



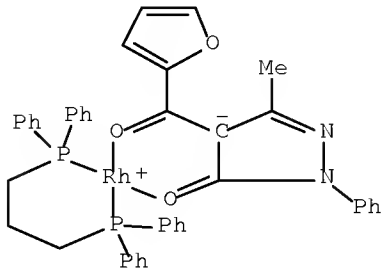
RN 651301-38-1 HCA
CN Rhodium, dichloro[2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (OC-6-43)- (CA INDEX NAME)



RN 651301-40-5 HCA
CN Rhodium, [4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][1,3-propanediylbis[diphenylphosphine-κP]]-, (SP-4-3)-, compd. with benzene (1:1) (9CI) (CA INDEX NAME)

CM 1

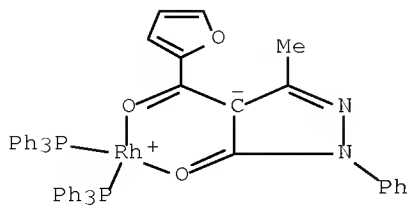
CRN 651301-28-9
CMF C42 H37 N2 O3 P2 Rh
CCI CCS



CM 2

CRN 71-43-2
CMF C6 H6

IT 444772-13-8P 444772-14-9P
(preparation and reaction with phosphines)
RN 444772-13-8 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 444772-14-9 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 651301-18-7P 651301-24-5P 651301-28-9P 651301-32-5P 651301-36-9P
(preparation of)
RN 651301-18-7 HCA
CN Rhodium, [4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (SP-4-3)- (CA INDEX NAME)

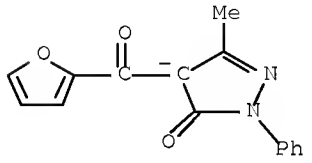


RN 651301-24-5 HCA

CN Rhodium(1+), bis[1,2-ethanediylbis[diphenylphosphine-κP]]-, (SP-4-1)-, salt with 4-(2-furanylcarbonyl)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

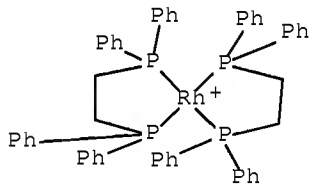
CM 1

CRN 429655-49-2
CMF C15 H11 N2 O3



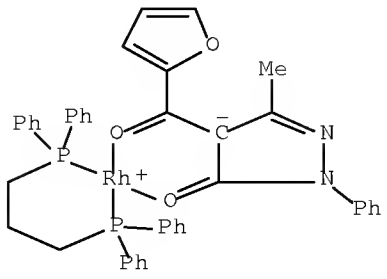
CM 2

CRN 47895-57-8
CMF C52 H48 P4 Rh
CCI CCS

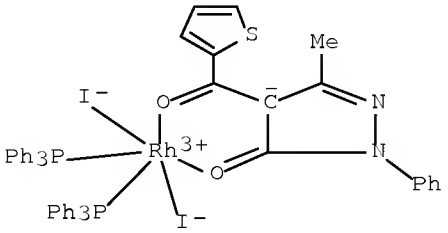


RN 651301-28-9 HCA

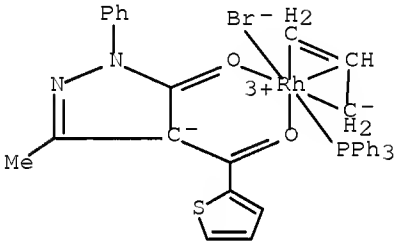
CN Rhodium, [4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][1,3-propanediylbis[diphenylphosphine-κP]]-, (SP-4-3)- (9CI) (CA INDEX NAME)



RN 651301-32-5 HCA
CN Rhodium, [2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]diiodobis(triphenylphosphine)-, (OC-6-43)- (CA INDEX NAME)



RN 651301-36-9 HCA
CN Rhodium, bromo[2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3](η3-2-propenyl)(triphenylphosphine)- (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 29, 75
IT 651301-17-6P 651301-21-2P 651301-38-1P 651301-40-5P
(preparation and crystal structure of)
IT 444772-13-8P 444772-14-9P
(preparation and reaction with phosphines)
IT 651301-18-7P 651301-24-5P 651301-28-9P 651301-32-5P 651301-36-9P
(preparation of)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anderson, P	1981	20	4101	Inorg Chem	
Angermund, K	1997	3	755	Chem Eur J	HCA
Anon	1995	12		Comprehensive Organo	
Augustine, R	1970		497	J Chem Soc Chem Comm	
Baker, R	1995	34	1336	Angew Chem Int Ed En	HCA
Bennett, M	1977	16	1581	Inorg Chem	HCA
Brown, J	1993		25	Chem Soc Rev	HCA
Chin, C	1992		1323	J Chem Soc Dalton Tr	HCA
Cingolani, A	2002	41	1151	Inorg Chem	HCA
Cingolani, A	2002	329	100	Inorg Chim Acta	HCA

Crabtree, R	1994			The Organometallic C	
Dai, C	1998		1983	J Chem Soc Chem Conm	HCA
Duan, Z	1994	13	609	Polyhedron	HCA
Dudley, C	1974		1927	J Chem Soc Dalton Tr	
Elduque, A	1996		2155	J Chem Soc Dalton Tr	HCA
Esteruelas, M	1996	15	3436	Organometallics	HCA
Fernandez, E	1997		173	J Chem Soc Chem Comm	HCA
Fornica, R	1995		1479	J Chem Soc Chem Comm	
Fornika, R	2001	79	642	Can J Chem	HCA
Fryzuk, M	1982	21	2134	Inorg Chem	HCA
Giordano, C	1990	28	88	Inorg Synth	
Haarman, H	1997	16	979	Organometallics	HCA
Hutschka, F	1997	119	4432	J Am Chem Soc	HCA
Jensen, B	1959	13	1347	Acta Chem Scand	HCA
Jesse, A	1978	26	129	Inorg Chim Acta	HCA
John, K	2001	20	296	Organometallics	HCA
John, K	2002	20	5757	Organometallics	
Kumobayashi, H	1996	115	201	Rec Trav Chim Pays-b	HCA
Lahuerta, P	1993	209	177	Inorg Chim Acta	HCA
Lange, S	2002		752	J Chem Soc Dalton Tr	HCA
Leipoldt, J	1985	96	L31	Inorg Chim Acta	HCA
Leipoldt, J	1991	402	259	J Organomet Chem	HCA
Leitner, W	1999	18	1196	Organometallics	HCA
Marder, T	1998	5	63	Top Catal	HCA
Moasser, B	1995	14	3832	Organometallics	HCA
Okafor, E	1990	172	97	Inorg Chim Acta	HCA
Pettinari, C	2001	4	290	Inorg Chem Commun	HCA
Pettinari, C	1998	566	187	J Organomet Chem	HCA
Pettinari, C	2002	651	5	J Organomet Chem	HCA
Ramsden, J	1995		2469	J Chem Soc Chem Comm	HCA
Roucoux, A	1996	15	2440	Organometallics	HCA
Senko, M				IsoPro Isotopic Abun	
Sheldrick, G	1997			SHELX-93	
Sheldrick, G	1997			SHELXS-97	
Shestakova, E	1994	7	24	Rhodium Express	
Shestakova, E	1994	5	27	Rhodium Express	HCA
Shestakova, E	1994	7	30	Rhodium Express	
Shestakova, E	1995	12	6	Rhodium Express	HCA
Simanko, W	2000	602	59	J Organomet Chem	HCA
Suzuki, H	1982		1011	Chem Lett	HCA
Togni, A	1994	116	4062	J Am Chem Soc	HCA
Trzeciak, A	1997		1831	J Chem Soc Dalton Tr	HCA
Trzeciak, A	1996	20	365	New J Chem	HCA
Ueda, M	2000	65	4450	J Org Chem	HCA
van Dam, H	1980	19	3448	Inorg Chem	HCA
van Haaren, R	2002	5	431	C R Chim	HCA
van Rooy, A	1995	14	34	Organometallics	HCA
van Rooy, A	1996	15	835	Organometallics	HCA
Van Vugt, B	1973	92	1321	Recueil	HCA
Volger, H	1967	9	527	J Organomet Chem	HCA
Westcott, S	1992	114	8863	J Am Chem Soc	HCA
Westcott, S	1993	12	975	Organometallics	HCA
Yamashita, H	1993	81	255	J Mol Catal	HCA
Zhou, Z	1995	14	4209	Organometallics	HCA

OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L20 ANSWER 4 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 137:263145 HCA Full-text
TITLE: The reactivity of new (1,5-cyclooctadiene)rhodium

acylpyrazolonates towards N- and P-donor ligands: X-ray structures of [Rh(1,5-COD)Qs], [Rh(1,5-COD)(phen)]Qs·0.5H2O (HQs = 1-phenyl-3-methyl-4-(2-thenoyl)-pyrazol-5-one) and [Rh(1,5-COD)Br]2

AUTHOR(S): Pettinari, Claudio; Marchetti, Fabio; Cingolani, Augusto; Bianchini, Gianluca; Drozdov, Andrei; Vertlib, Vyacheslav; Troyanov, Sergei

CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita degli Studi, Camerino MC, 62032, Italy

SOURCE: Journal of Organometallic Chemistry (2002), 651(1-2), 5-14
CODEN: JORCAI; ISSN: 0022-328X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:263145

AB [Rh(1,5-COD)(Q)] were prepared by the reaction between [Rh(1,5-COD)Cl]2 (1,5-COD = 1,5-cyclooctadiene) and HQ (HQ = 1-phenyl-3-methyl-4-R-pyrazol-5-one: R = 2-thenoyl (HQs), 2-furanoyl (HQo) or tert-butylacetyl (HQT)). [Rh(1,5-COD)(Q)] reacted with N2-donor ligands such as 1,10-phenanthroline (phen) or 2,2-bipyridyl (bipy) yielding ionic compds. [Rh(1,5-COD)(N2-donor)]Q. The substitutional lability of 1,5-COD in [Rh(1,5-COD)(Q)] vs. mono- and di-organophosphine ligands was also studied. In all cases 1,5-COD was displaced. Reaction with two equivalent of PPh3 gave, upon oxidation of the Rh(I) center, [Rh(PPh3)2(O2)(Q)] species containing a η2-peroxo-group. Reaction of [Rh(1,5-COD)(Q)] with the chelating P2-donor 1,2-bis(diphenylphosphino)ethane (dppe) or 4,4'-bis(diphenylphosphino)ferrocene (dppf) yielded the peroxo Rh(III) compds. [Rh(dppe)2O2]QT and [Rh(dppf)O2(Qs)] or Rh(I) species [Rh(dppf-O2)(QT)] containing the diphosphine in the oxidized form. Finally the reaction between [Rh(1,5-COD)(Q)] and allyl bromide yielded the known [Rh(1,5-COD)Br]2. All complexes were characterized by anal. and spectral data (IR, 1H and 31P{1H}-NMR spectra). The crystal structures of [Rh(1,5-COD)(Qs)], [Rh(1,5-COD)(phen)]Qs and [Rh(1,5-COD)Br]2, all containing a Rh(I) atom in a square coordinate environment, were also reported.

IT 463975-75-9P
(preparation and crystal structure of)

RN 463975-75-9 HCA

CN Rhodium(1+), [(1,2,5,6-η)-1,5-cyclooctadiene](1,10-phenanthroline-κN1,κN10)-, salt with 2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl)-3H-pyrazol-3-one, hydrate (2:2:1) (9CI) (CA INDEX NAME)

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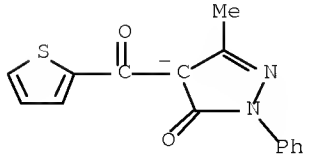
CRN 463975-74-8
CMF C20 H20 N2 Rh . C15 H11 N2 O2 S

CM 2

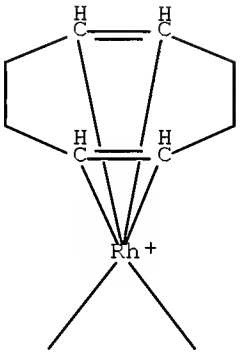
CRN 429655-52-7
CMF C15 H11 N2 O2 S



CM 3

CRN 47248-45-3
CMF C20 H20 N2 Rh
CCI CCS

PAGE 1-A



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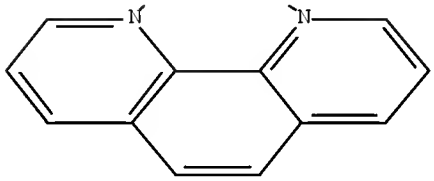
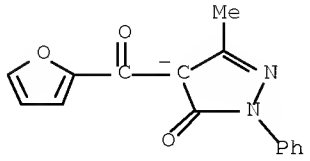


IT 463975-76-0P 463975-77-1P 463975-78-2P
463975-79-3P 463975-80-6P 463975-81-7P
463975-82-8P 463975-83-9P 463975-84-0P
(preparation of)
RN 463975-76-0 HCA
CN Rhodium(1+), [(1,2,5,6-η)-1,5-cyclooctadiene](1,10-phenanthroline-κN1,κN10)-, salt with 4-(2-furanylcarbonyl)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 429655-49-2

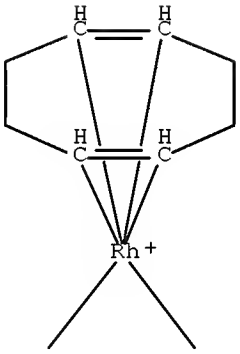
CMF C15 H11 N2 O3



CM 2

CRN 47248-45-3
CMF C20 H20 N2 Rh
CCI CCS

PAGE 1-A



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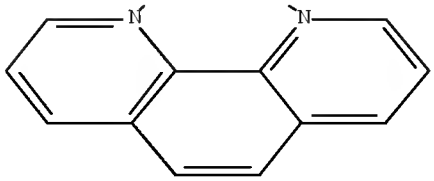

RN 463975-77-1 HCA
CN Rhodium(1+), (2,2'-bipyridine-κN1,κN1')[(1,2,5,6-η)-1,5-cyclooctadiene]-, salt with 2,4-dihydro-5-methyl-2-phenyl-4-(2-

thienylcarbonyl)-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

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CRN 429655-52-7
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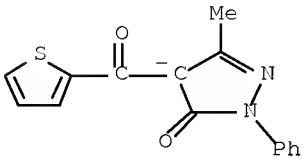
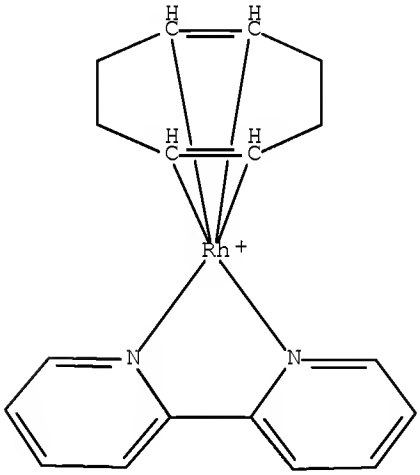


CM 2

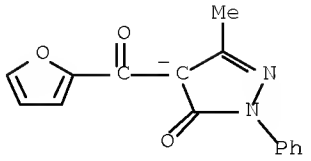
CRN 47101-12-2
CMF C18 H20 N2 Rh
CCI CCS



RN 463975-78-2 HCA
CN Rhodium(1+), (2,2'-bipyridine-κN1,κN1')[(1,2,5,6-η)-1,5-cyclooctadiene]-, salt with 4-(2-furanylcarbonyl)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

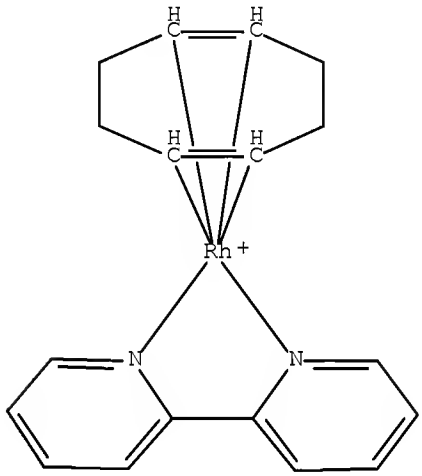
CM 1

CRN 429655-49-2
CMF C15 H11 N2 O3

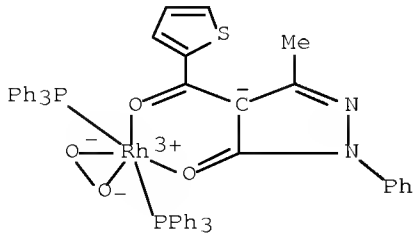


CM 2

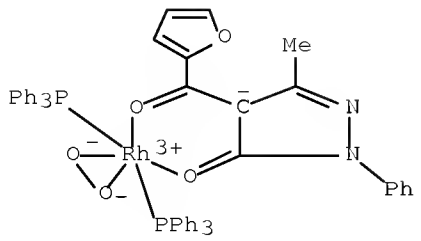
CRN 47101-12-2
CMF C18 H20 N2 Rh
CCI CCS



RN 463975-79-3 HCA
CN Rhodium, [2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]peroxybis(triphenylphosphine)- (9CI) (CA INDEX NAME)

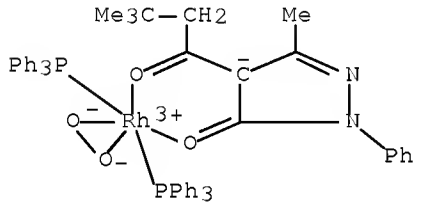


RN 463975-80-6 HCA
CN Rhodium, [4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]peroxybis(triphenylphosphine)- (9CI) (CA INDEX NAME)



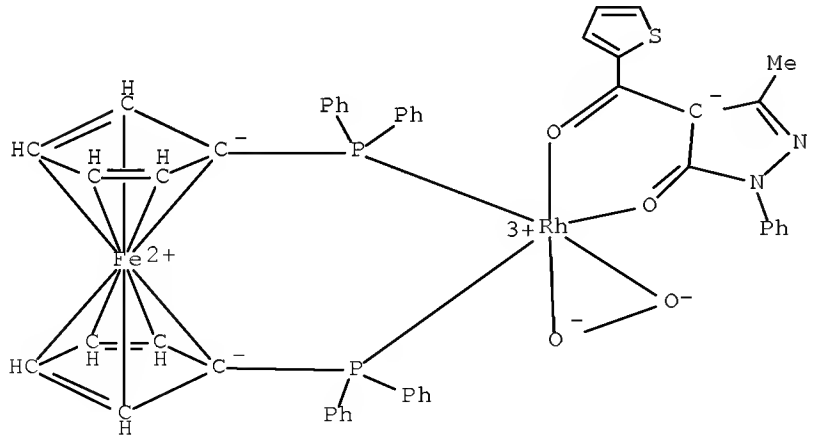
RN 463975-81-7 HCA

CN Rhodium, [4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]peroxybis(triphenylphosphine)- (9CI) (CA INDEX NAME)



RN 463975-82-8 HCA

CN Rhodium, [1,1'-bis(diphenylphosphino-κP)ferrocene][2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]peroxy- (9CI) (CA INDEX NAME)



RN 463975-83-9 HCA

CN Rhodium(1+), bis[1,2-ethanediylbis[diphenylphosphine-κP]]peroxy-, (OC-6-21)-, salt with 4-(3,3-dimethyl-1-oxobutyl)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

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CRN 216253-41-7
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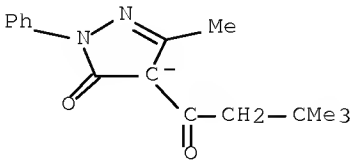

CM 2

CRN 47898-18-0
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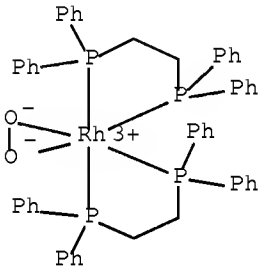
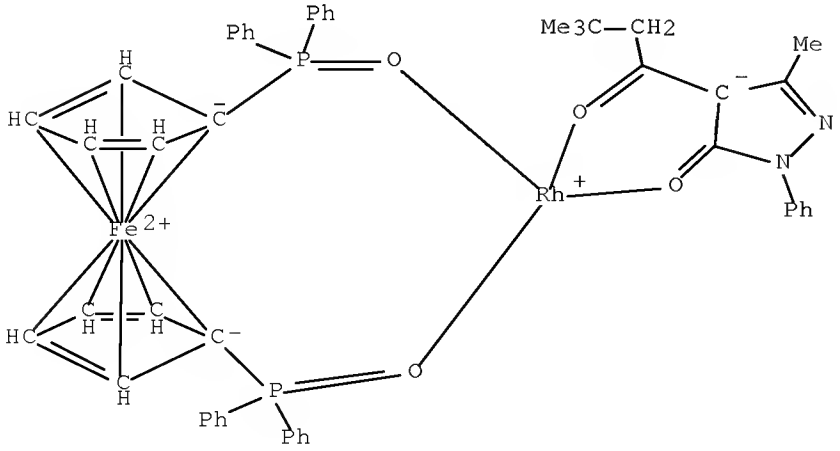
CCI CCS



RN 463975-84-0 HCA
CN Rhodium, [1,1'-bis(diphenylphosphinyl-κO)ferrocene][4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]-, (SP-4-3)- (9CI) (CA INDEX NAME)



IT 444772-14-9P 463975-73-7P
(preparation, coordinative substitution reaction with nitrogen and phosphorus donor ligands, and oxidation in presence of phosphines)
RN 444772-14-9 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 463975-73-7 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][4-[3,3-dimethyl-1-(oxo-κO)butyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 444772-13-8P
(preparation, coordinative substitution reaction with nitrogen and phosphorus donor ligands, oxidation in presence of phosphines, and crystal structure of)
RN 444772-13-8 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
CC 29-13 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 75, 78
IT 12092-45-4P, Bis[bromo(1,5-cyclooctadiene)rhodium] 463975-75-9P
(preparation and crystal structure of)
IT 463975-76-0P 463975-77-1P 463975-78-2P
463975-79-3P 463975-80-6P 463975-81-7P
463975-82-8P 463975-83-9P 463975-84-0P
(preparation of)
IT 444772-14-9P 463975-73-7P
(preparation, coordinative substitution reaction with nitrogen and phosphorus donor ligands, and oxidation in presence of phosphines)
IT 444772-13-8P
(preparation, coordinative substitution reaction with nitrogen and phosphorus donor ligands, oxidation in presence of phosphines, and crystal structure of)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Adams, D	1969		588	J Chem Soc A	HCA
Anderson, G	1988	146	89	Inorg Chim Acta	HCA
Angermund, K	1997	3	755	Chem Eur J	HCA
Anzuela, E	1991	185	211	Inorg Chim Acta	HCA
Aresta, M	2001		1801	Eur J Inorg Chem	HCA
Aresta, M	1996	35	4254	Inorg Chem	HCA
Augustine, R	1970		497	Chem Commun	
Bennett, M	1967	6	1647	Inorg Chem	HCA
Bennett, M	1968	7	321	Inorg Chem	HCA
Bennett, M	1977	16	1581	Inorg Chem	HCA
Bleeke, J	1986	5	2401	Organometallics	HCA
Bonati, F	1985	4	357	Polyhedron	HCA
Cano, M	1994	13	2463	Polyhedron	HCA
Casellato, U	1990	29	1193	Inorg Chem	HCA
Chadwell, S	1995		3551	J Chem Soc Dalton Tr	HCA
Chatt, J	1957		4735	J Chem Soc	HCA

Chatt, M	1953		2939	J Chem Soc	
Clauti, G	1986	112	103	Inorg Chim Acta	HCA
Crociani, B	1988	145	253	Inorg Chim Acta	HCA
Deacon, G	1969	25	355	Spectrochim Acta A	HCA
Deerenberg, S	2000	19	2065	Organometallics	HCA
Di Noto, V	1995	233	165	Inorg Chim Acta	HCA
Donkervoort, J	1999		27	Eur J Inorg Chem	HCA
Duan, Z	1994	13	609	Polyhedron	HCA
Dudley, C	1974		1927	J Chem Soc Dalton Tr	
Dunbar, K	1995	240	527	Inorg Chim Acta	HCA
Edwards, H	1994	216	191	Inorg Chim Acta	HCA
Esteruelas, M	1988	344	93	J Organomet Chem	HCA
Esteuelas, M	2000	599	178	J Organomet Chem	
Felix, A	1999	214	463	New Cryst Struct	HCA
Fordyce, W	1982	21	1023	Inorg Chem	HCA
Fordyce, W	1982	21	1027	Inorg Chem	HCA
Garcia, V	1988	7	1067	Polyhedron	
Garcia, V	1985	10	288	Trans Met Chem	HCA
Garralda, M	1995	232	9	Inorg Chim Acta	HCA
Garralda, M	1986	311	225	J Organomet Chem	HCA
Gayathri, V	2000	25	450	Trans Met Chem	HCA
Geoffroy, G	1977	16	205	Inorg Chem	HCA
Giordano, G	1990	28	88	Inorg Synth	HCA
Haarman, H	1997	16	979	Organometallics	HCA
Heaton, B	1996		1701	J Chem Soc Dalton Tr	HCA
Hoffmann, R	2000	52	121	Heterocycles	HCA
Holzer, W	1999	50	799	Heterocycles	HCA
Ibers, J	1962	15	923	Acta Crystallogr	HCA
Iglesias, M	1987	127	215	Inorg Chim Acta	HCA
James, B	1980	58	996	Can J Chem	HCA
Jensen, B	1959	13	1347	Acta Chem Scand	HCA
Jesse, A	1978	26	129	Inorg Chim Acta	HCA
Kingston, J	1971		3399	J Chem Soc A	HCA
Laly, M	2000	41	1183	Tetrahedron Lett	HCA
Leipoldt, J	1990	43	239	J Organomet Chem	
Ma, J	1999	574	148	J Organomet Chem	HCA
McGinnety, J	1969	91	6301	J Am Chem Soc	HCA
Mestroni, G	1974	65	119	J Organomet Chem	HCA
Mieczynska, E	1995		105	J Chem Soc Dalton Tr	HCA
Miller, J	1975	97	1067	J Am Chem Soc	HCA
Morvillo, A	1986	121	219	Inorg Chim Acta	HCA
Moszner, M	2000	595	178	J Organomet Chem	HCA
Pettinari, C	1999		1555	J Chem Soc Dalton Tr	HCA
Pettinari, C	1998	566	187	J Organomet Chem	HCA
Pruchnik, F	1998	570	63	J Organomet Chem	HCA
Sakurai, F	1980	102	1749	J Am Chem Soc	HCA
Scronck, R	1971	93	2397	J Am Chem Soc	
Selke, M	1995	34	5715	Inorg Chem	HCA
Sheldrick, G	1993			SHELXL 93	
Sheldrick, G	1986			SHELXS 86	
Simanko, W	2000	602	59	J Organomet Chem	HCA
Simpson, M	1996	155	163	Coord Chem Rev	HCA
Suzuki, H	1982		1011	Chem Lett	HCA
Teleshev, A	1999	39	203	Neftekhimiya	HCA
Timmer, K	1985	100	235	Inorg Chim Acta	HCA
Trzeciak, A	1999	190-1	883	Coord Chem Rev	HCA
Trzeciak, A	1997		1831	J Chem Soc Dalton Tr	HCA
Tucker, P	1975	31	592	Acta Crystallogr B	
van der Veen, L	1999	18	4765	Organometallics	HCA
Volger, H	1969	3	145	Inorg Chim Acta	HCA

Wajda-Hermanowicz, K	1998	13	101	Trans Met Chem	
Wajda-Hermanowicz, K	1998	13	22	Trans Met Chem	
Wertz, D	1980	19	705	Inorg Chem	HCA

OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)

L20 ANSWER 5 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 137:149282 HCA Full-text
TITLE: Complexes of some d and f elements with new 4-acylpyrazol-5-ones: synthesis and study
AUTHOR(S): Drozdov, A. A.; Vertlib, V. A.; Timokhin, I.; Troyanov, S. I.; Pettinari, C.; Marchetti, F.
CORPORATE SOURCE: Moscow State University, Moscow, 117234, Russia
SOURCE: Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2002), 28(4), 259-263
CODEN: RJCCEY; ISSN: 1070-3284
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:149282

AB Complexes of 1-phenyl-3-methyl-4-thenoylpyrazol-5-one and 1-phenyl-3-methyl-4-furancarbonylpyrazol-5-one, which was synthesized for the 1st time, with Cu, Rh, La, and Eu were studied. The substances obtained were studied using elemental anal. and IR spectroscopy, while the Rh derivs. were addnl. studied using the 1H NMR method. The thermal stability of the Cu derivs. was studied upon heating in a vacuum. The presence of addnl. heteroatoms in acylpyrazolone had virtually no effect on the structure and composition of the complexes formed. These ligands coordinate atoms of d and f metals through O atoms similarly to other β-diketones, whereas the remaining heteroatoms only participated in the formation of a H bonding system with addnl. ligands or coordinated solvent mols.

IT 444772-13-8P 444772-14-9P
(preparation of)
RN 444772-13-8 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][2,4-dihydro-5-methyl-2-phenyl-4-(2-thienylcarbonyl-κO)-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 444772-14-9 HCA
CN Rhodium, [(1,2,5,6-η)-1,5-cyclooctadiene][4-(2-furanylcarbonyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 28, 29, 75
IT 444772-10-5P 444772-12-7P 444772-13-8P 444772-14-9P
(preparation of)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1998	2	86	Khimicheskaya entsik	
Bombieri, G	1987	132	263	Inorg Chim Acta	
Drozdov, A	1999	9	8	J Phys IV	
Efimov, I	1971		84	Abstracts of Papers,	
Efimov, I	1973		156	Abstracts of Papers,	
Efimov, I	1969		121	Vestn Mosk Gos Univ,	HCA
Efimov, I	1970		490	Vestn Mosk Gos Univ,	HCA

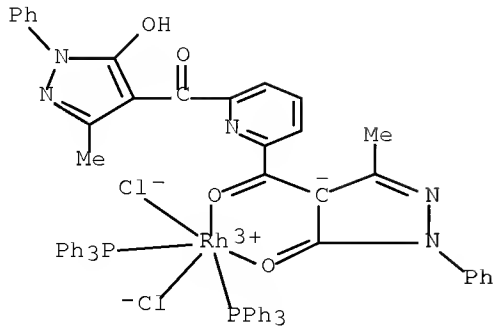
Gao, X	1998	72	2217	Appl Phys Lett	HCA
Gao, X	1999	99	127	Synth Met	HCA
Garcia, M	1988	7	1067	Polyhedron	
Giordano, G	1990	28	88	Inorg Synth	HCA
Jensen, B	1959	13	1668	Acta Chem Scand	
Kuz'min, N	1977		142	Ekstraktsiya metallo	
Marchetti, F	2000	307	97	Inorg Chim Acta	
Marchetti, F	1998		3325	J Chem Soc, Dalton T	HCA
Marchetti, F	1998	21	255	Main Group Met Chem	HCA
Marchetti, F	1996	15	3835	Polyhedron	HCA
Pettinari, C	1997	262	33	Inorg Chim Acta	HCA
Pettinari, C	2001	315	88	Inorg Chim Acta	HCA
Pettinari, C				J Chem Soc, Dalton T	
Pettinari, C	1999		1555	J Chem Soc, Dalton T	HCA
Pettinari, C	2000		831	J Chem Soc, Dalton T	HCA
Pettinari, C	2001	44	3665	J Med Chem	
Pettinari, C	1998	557	187	J Otxanomet Chem	HCA
Sheldrick, G	1986			SHELXS86: Program fo	
Sheldrick, G	1993			SHELXS93: Program fo	
Zhou, D	1997	16	1381	Polyhedron	HCA

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L20 ANSWER 6 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 135:195655 HCA Full-text
TITLE: Interaction of Rh(I) with a new polydentate O4,N-donor pyrazolone able to form mononuclear, dinuclear and heterobimetallic compounds
AUTHOR(S): Pettinari, C.; Marchetti, F.; Drozdov, A.; Vertlib, V.; Troyanov, S.
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita degli Studi di Camerino, Camerino, MC, 62032, Italy
SOURCE: Inorganic Chemistry Communications (2001), 4(6), 290-293
CODEN: ICCOFP; ISSN: 1387-7003
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:195655

AB Reaction of the new polydentate O4,N-donor ligand, namely 2,6-bis[4(1-N-phenyl-3-methyl-pyrazolium-5-one)carbonyl]pyridinium trichloride [H5QN]Cl3, with [Rh(COD)Cl]2 affords the dinuclear compound [Rh2(COD)2([H3QN]Cl3)]1 which reacts with PPh3 forming [Rh(PPh3)2Cl2(HQN)]2, able to interact with SnMe2Br2 yielding the heterobimetallic adduct [Rh(PPh3)2 Cl2(HQN)SnMe2Br2]3; the X-ray structure of 2 shows the Rh(III) center in a slightly distorted octahedral environment with Cl atoms situated in cis-position and two phosphine groups in trans.

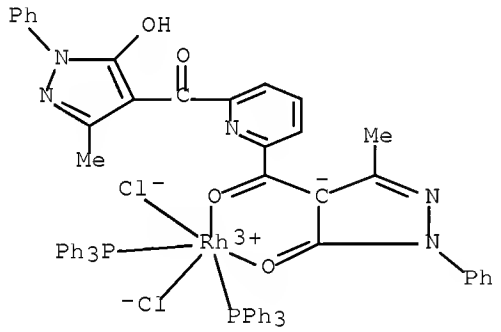
IT 357334-17-9P
(preparation and complexation with tin bromo Me complex)
RN 357334-17-9 HCA
CN Rhodium, dichloro[2,4-dihydro-4-[[6-[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)carbonyl]-2-pyridinyl]carbonyl-κO]-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (OC-6-42)- (CA INDEX NAME)



IT 357334-19-1P
(preparation and crystal structure of)
RN 357334-19-1 HCA
CN Rhodium, dichloro[2,4-dihydro-4-[[6-[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)carbonyl]-2-pyridinyl]carbonyl-κO]-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (OC-6-42)-, compd. with 1,1'-oxybis[ethane] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 357334-17-9
CMF C63 H50 Cl2 N5 O4 P2 Rh
CCI CCS

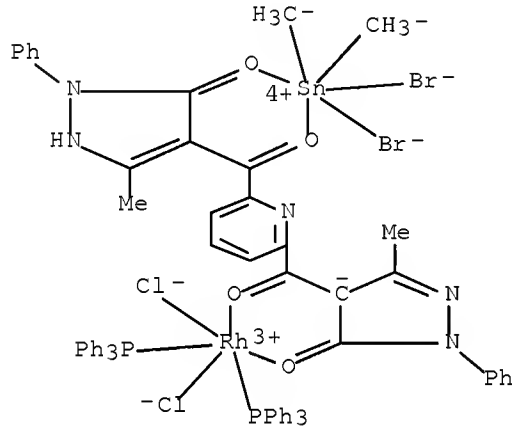


CM 2

CRN 60-29-7
CMF C4 H10 O

IT 357334-16-8P
(preparation and substitution/oxidative addition reaction with chloroform solution

of triphenylphosphine)
RN 357334-16-8 HCA
CN Rhodium, bis[(1,2,5,6-η)-1,5-cyclooctadiene][μ-[[4,4'-[2,6-pyridinediyldi(carbonyl-κO)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]](2-)]]di-, trihydrochloride (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 357334-18-0P
(preparation of)
RN 357334-18-0 HCA
CN Rhodium, dichloro(dibromodimethyltin)[μ-[[4,4'-[2,6-pyridinediyldi(carbonyl-κO)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]](2-)]]bis(triphenylphosphine)-, stereoisomer (9CI) (CA INDEX NAME)



CC 29-13 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 75
IT 357334-17-9P
(preparation and complexation with tin bromo Me complex)
IT 357334-19-1P
(preparation and crystal structure of)
IT 357334-16-8P
(preparation and substitution/oxidative addition reaction with chloroform solution
of triphenylphosphine)
IT 357334-18-0P
(preparation of)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Alvarez, M	1994	468	249	J Organomet Chem	HCA
Angermund, K	1997	3	755	Chem Eur J	HCA
Baird, M	1967		1347	J Chem Soc A	
Bonati, F	1985	4	357	Polyhedron	HCA
Bradd, K	1999		1109	J Chem Soc Dalton Tr	HCA
Braunstein, P	1995		863	J Chem Soc Dalton Tr	HCA
Brown, J	1987		1597	J Chem Soc Perkin Tr	HCA
Duan, Z	1994	13	609	Polyhedron	HCA
Dutta, S	2000	39	2231	Inorg Chem	HCA

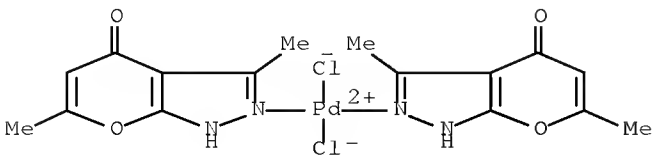
Giordano, G	1990	28	88	Inorg Synth	HCA
Haarman, H	1997	16	887	Organometallics	HCA
Jardine, F	1981	28	63	Prog Inorg Chem	HCA
Jensen, B	1959	13	1347	Acta Chem Scand	HCA
Miller, J	1991	10	2958	Organometallics	HCA
Oro, L	1999	193	941	Coord Chem Rev	
Pettinari, C	1992	122	261	Gazz Chim Ital	HCA
Pettinari, C	1997	257	37	Inorg Chim Acta	HCA
Pettinari, C	1998	566	187	J Organomet Chem	HCA
Pruchnik, F	1998	570	63	J Organomet Chem	HCA
Sarkhel, P	1999	38	150	Ind J Chem, Sect A	
Sheldrick, G	1993			Shelxl 93	
Sheldrick, G	1986			Shelxs 86	
Stephenson, T	1970		889	J Chem Soc A	HCA
Tejel, C	1998	17	1449	Organometallics	HCA
van der Ploeg, A	1981	51	225	Inorg Chim Acta	HCA
van der Zeijden, A	1989		317	J Chem Soc Dalton Tr	HCA

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L20 ANSWER 7 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 132:259719 HCA Full-text
TITLE: Synthesis and cytotoxic activity of some novel trans-palladium complexes with pyrazole derivatives
AUTHOR(S): Al-Allaf, Talal A. K.; Rashan, Luay J.
CORPORATE SOURCE: Department of Chemistry, College of Science, Applied Science University, Amman, 11931, Jordan
SOURCE: Asian Journal of Chemistry (1999), 11(4), 1543-1545
CODEN: AJCHEW; ISSN: 0970-7077
PUBLISHER: Asian Journal of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Novel Pd(II) complexes trans-[PdL2Cl2], where L is a pyrazole derivative, were prepared and characterized physicochem. and spectroscopically. Pyrazole derivs. coordinate with Pd in a monodentate fashion via the most reactive N site. The cytotoxic activity of these complexes was evaluated in vitro against four cell-lines using the MTT-assay, one fluid suspension (P388, leukemia) and three solid human cell lines (Hep-2, larynx; RD, embryonal rhabdomyosarcoma and HeLa, cervical cells). One of these complexes, for example, demonstrated a potent cytotoxic activity against P388 and significant cytotoxicity against the other three-cell lines in comparison with the reference stds.: cisplatin, carboplatin, oxaliplatin and 5-FU.

IT 262597-31-9P
(preparation and antitumor activity)
RN 262597-31-9 HCA
CN Palladium, dichlorobis(3,6-dimethylpyrano[2,3-c]pyrazol-4(1H)-one-κN2)-, (SP-4-1)- (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)

Section cross-reference(s): 1
IT 121833-06-5P 126873-41-4P 262597-25-1P 262597-27-3P 262597-29-5P
262597-30-8P 262597-31-9P 262597-32-0P 262597-33-1P
(preparation and antitumor activity)
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Al-Allaf, T	1995	7	465	Asian J Chem	HCA
Al-Allaf, T	1996	8	489	Asian J Chem	HCA
Al-Allaf, T	1997	9	239	Asian J Chem	HCA
Al-Allaf, T	1998	10	297	Asian J Chem	HCA
Al-Allaf, T	1998	10	342	Asian J Chem	HCA
Al-Allaf, T	1998	33	817	Eur J Med Chem	HCA
Al-Allaf, T	1988	147	185	Inorg Chim Acta	HCA
Clear, M	1977	7	1	J Clin Hematot Oncol	
Harrap, K	1984	28	14	Platinum Met Rev	
Sadimenko, A	1996	147	247	Coord Chem Rev	HCA
Stianker, M	1982	59	1104	J Indian Chem Soc	
Tanabe Seiyaku Co Ltd		115	929	Eur Appl	
Tanabe Seiyaku Co Ltd	1985	29	48	Platimum Met Rev	
Trofimenko, S	1993		943	Chem Rev	HCA

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L20 ANSWER 8 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 129:316354 HCA Full-text
ORIGINAL REFERENCE NO.: 129:64559a,64562a
TITLE: (1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: Reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors
AUTHOR(S): Pettinari, C.; Accorroni, F.; Cingolani, A.; Marchetti, F.; Cassetta, A.; Barba, L.
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita di Camerino, Camerino, I-62032, Italy
SOURCE: Journal of Organometallic Chemistry (1998), 566(1-2), 187-201
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Novel complexes of rhodium(I) [Rh(diolefin)(Q'')] (where HQ'' = 1-phenyl-3-methyl-4-acetylpyrazol-5-one and diolefin = cycloocta-1,5-diene (COD), bicyclo[2.2.1]hepta-2,5-diene (NBD) or 1,5-hexadiene (HEX)) were synthesized and characterized by anal. and spectral data. [Rh(COD)(Q'')] interacts with 4,5-dimethyl-1,10-phenanthroline (Me2Phen) and 2,2'-bipyridyl (Bipy) yielding the cationic derivs. [Rh(COD)(Me2Phen)](Q'')(H2O), [Rh(COD)(Bipy)](Q'')(H2O) upon displacement of the (Q'')- donor from the coordination sphere of the metal center. Whereas [Rh(COD)(Q'')] interacts with 2-benzoylpyridine (Bzpy) yielding the 1:1 adduct [Rh(COD)(Bzpy)(Q'')] in which Bzpy acts as N-monodentate donor. On the other hand the monodentate P-donors triphenylphosphine, tri-Ph phosphite, tricyclohexylphosphine and the bidentate bis(diphenylphosphino)ethane (DPPE) displace the COD ligand from [Rh(COD)(Q'')] giving the neutral derivs. [Rh(PR3)2(Q'')] (PR3 = PPh3, or P(OPh)3) and [Rh(DPPE)(Q'')](H2O). HQ'' reacts with the dinuclear [Rh(CO)2Cl]2. The tetradentate cyclooctatetraene (COT) reacts with [Rh(CO)2(Q'')] yielding the derivative [Rh(CO)2(HQ'')Cl] in which HQ'' acts as neutral monodentate O-donor ligand. Whereas in presence of NEt3, HQ'' reacts

with [Rh(CO)2Cl]2 yielding [Rh(CO)2(Q'')]. In this complex, one mol. of CO can be replaced by one mole of Phen and Bipy or by two moles of PPh3 and AsPh3 yielding the derivs. [Rh(CO)(L)n(Q'')]·x(H2O) (L = Me2Phen or Bipy, n = 1; L = PPh3 or AsPh3, n = 2) whereas one mole of DPPE displaces both the mols. of CO, yielding [Rh(DPPE)(Q'')] yielding the derivative [Rh(COT)(Q'')]. The x-ray crystal structure determination of [Rh(COD)(Q'')] establishes that the rhodium atom is in a square planar configuration with two adjacent sites occupied by the (Q'')- ligand in the O2-bidentate form (Rh-O distances = 2.054(2) and 2.061(2) A). The COD ring has a twisted boat conformation with Rh-C distances in the range 2.101(3)-2.110(3) A. Comparison was made with structural data reported for several related tetracoordinated (COD)Rh(I) adducts.

IT 214747-44-1P

(crystal structure; preparation, structural, and spectroscopical characterization of acetylpyrazolonato rhodium complex and reactivity of diolefin- and dicarbonyl-rhodium complexes toward nitrogen-, phosphorus- and oxygen-donors)

RN 214747-44-1 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(1,2,5,6-η)-1,5-cyclooctadiene]- (CA INDEX NAME)

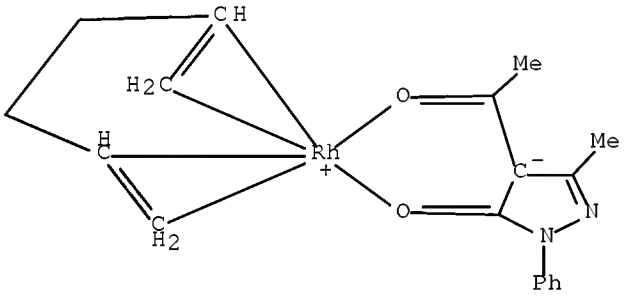
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 214747-45-2P 214747-46-3P 214747-48-5P 214747-49-6P 214747-50-9P 214747-51-0P 214747-52-1P 214747-53-2P 214747-54-3P 214747-56-5P 214747-57-6P 214747-58-7P 214747-59-8P 214747-60-1P

(preparation of)

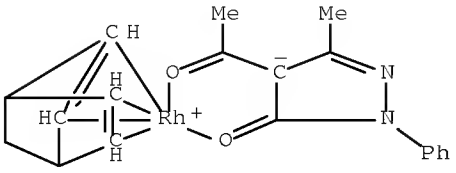
RN 214747-45-2 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(1,2,5,6-η)-1,5-hexadiene]- (CA INDEX NAME)



RN 214747-46-3 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(2,3,5,6-η)-bicyclo[2.2.1]hepta-2,5-diene]- (CA INDEX NAME)

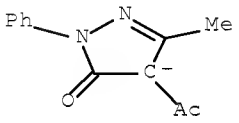


RN 214747-48-5 HCA

CN Rhodium(1+), [(1,2,5,6-η)-1,5-cyclooctadiene](4,7-dimethyl-1,10-phenanthroline-κN1,κN10)-, salt with 4-acetyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

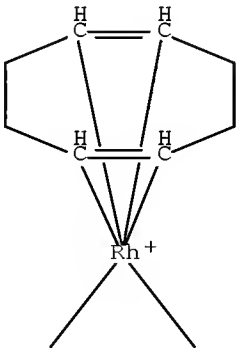
CM 1

CRN 214747-47-4
CMF C12 H11 N2 O2

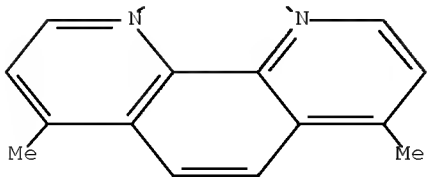


CM 2

CRN 56678-53-6
CMF C22 H24 N2 Rh
CCI CCS



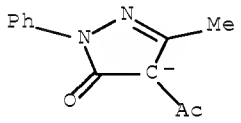
PAGE 2-A



RN 214747-49-6 HCA
CN Rhodium(1+), (2,2'-bipyridine-κN1,κN1')[(1,2,5,6-η)-1,5-cyclooctadiene]-, salt with 4-acetyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

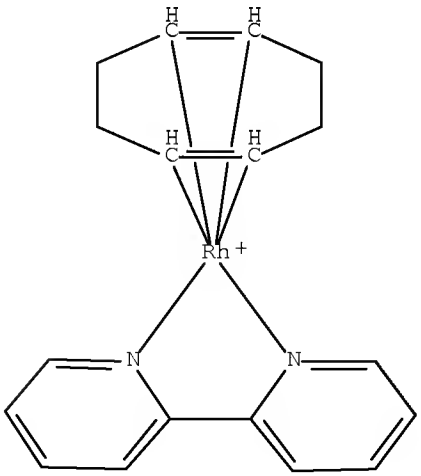
CM 1

CRN 214747-47-4
CMF C12 H11 N2 O2



CM 2

CRN 47101-12-2
CMF C18 H20 N2 Rh
CCI CCS



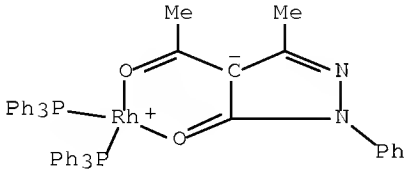
RN 214747-50-9 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(1,2,5,6-η)-1,5-cyclooctadiene][phenyl(2-pyridinyl-

κN)methanone]- (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

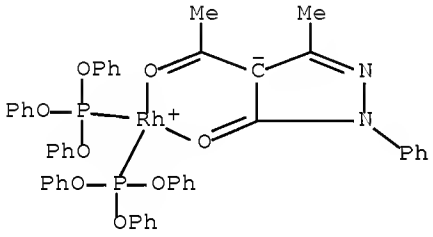
RN 214747-51-0 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis(triphenylphosphine)-, (SP-4-3)- (CA INDEX NAME)



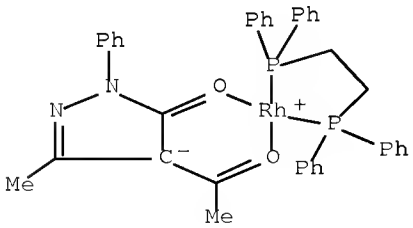
RN 214747-52-1 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]bis(triphenyl phosphite-κP)-, (SP-4-3)- (9CI) (CA INDEX NAME)



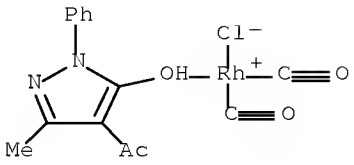
RN 214747-53-2 HCA

CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][1,2-ethanediylbis[diphenylphosphine-κP]]-, (SP-4-3)- (9CI) (CA INDEX NAME)

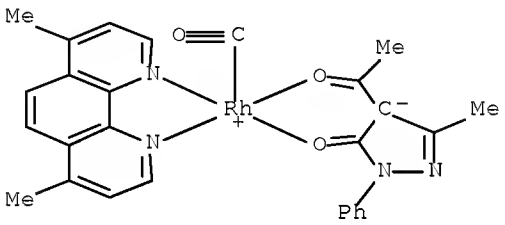


RN 214747-54-3 HCA

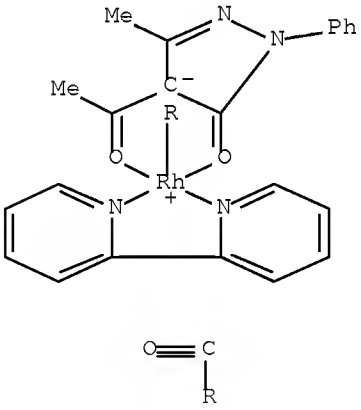
CN Rhodium, dicarbonylchloro[1-[5-(hydroxy-κO)-3-methyl-1-phenyl-1H-pyrazol-4-yl]ethanone]-, (SP-4-3)- (CA INDEX NAME)



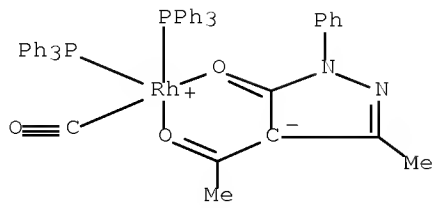
RN 214747-56-5 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]carbonyl(4,7-dimethyl-1,10-phenanthroline-κN1,κN10)-, (SP-5-43)- (CA INDEX NAME)



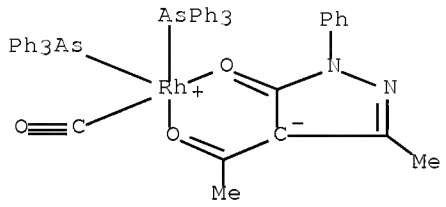
RN 214747-57-6 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3](2,2'-bipyridine-κN1,κN1')carbonyl-, (SP-5-43)- (CA INDEX NAME)



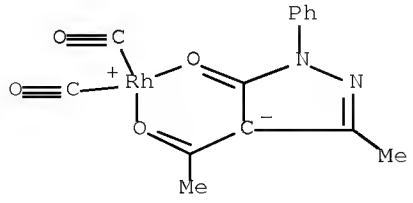
RN 214747-58-7 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]carbonylbis(triphenylphosphine)-, (SP-5-43)- (CA INDEX NAME)



RN 214747-59-8 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]carbonylbis(triphenylarsine)-, (SP-5-43)- (CA INDEX NAME)



RN 214747-60-1 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3][(1,2,5,6-η)-1,3,5,7-cyclooctatetraene]- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT 214747-55-4P
(preparation, structural, and spectroscopical characterization of acetylpyrazolonato rhodium complex and reactivity of diolefin- and dicarbonyl-rhodium complexes toward nitrogen-, phosphorus- and oxygen-donors)
RN 214747-55-4 HCA
CN Rhodium, [4-(acetyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]dicarbonyl-, (SP-4-3)- (CA INDEX NAME)



CC 29-13 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 75
IT 214747-44-1P
(crystal structure; preparation, structural, and spectroscopical characterization of acetylpyrazolonato rhodium complex and reactivity of diolefin- and dicarbonyl-rhodium complexes toward nitrogen-, phosphorus- and oxygen-donors)

IT 214747-45-2P 214747-46-3P 214747-48-5P
214747-49-6P 214747-50-9P 214747-51-0P
214747-52-1P 214747-53-2P 214747-54-3P
214747-56-5P 214747-57-6P 214747-58-7P
214747-59-8P 214747-60-1P
(preparation of)
IT 214747-55-4P
(preparation, structural, and spectroscopical characterization of acetylpyrazolonato rhodium complex and reactivity of diolefin- and dicarbonyl-rhodium complexes toward nitrogen-, phosphorus- and oxygen-donors)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Adams, D	1974		690	J Chem Soc Dalton Tr	HCA
Allen, F	1991	31	187	J Chem Inf Comput Sc	HCA
Alln, F	1996	B52	882	Acta Crystallogr	
Altomare, A	1993	26	343	J Appl Cryst	
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Bonati, F	1964		3156	J Chem Soc	HCA
Bonati, F	1985	4	357	Polyhedron	HCA
Bondi, A	1964	68	441	J Chem Phys	HCA
Brady, R	1976	15	1485	Inorg Chem	HCA
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Carruthers, J	1979	A35	698	Acta Cryst	HCA
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Huml, K	1979	B35	2413	Acta Crystallogr	HCA
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Robinson, S	1973		1912	J Chem Soc Dalton Tr	HCA
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Tanaka, I	1983	56	657	Bull Chem Soc Jpn	HCA
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Tucker, P	1975	B31	592	Acta Cryst	HCA
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Wertz, D	1980	19	705	Inorg Chem	HCA
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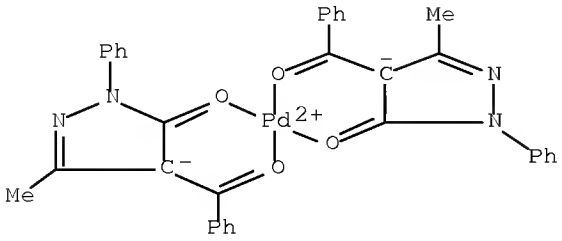
OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

L20 ANSWER 9 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 129:194249 HCA Full-text
ORIGINAL REFERENCE NO.: 129:39361a,39364a
TITLE: Thermoanalysis of bis[1-phenyl-3-methyl-4-benzoylpyrazolone-5]palladium(II)
AUTHOR(S): Tian, Xin; Jiang, Xuchuan; Yang, Yanzhao; Shao, Hua; Yang, Yonghui; Sun, Sixiu
CORPORATE SOURCE: School Chem., Shandong Univ., Jinan, Peop. Rep. China
SOURCE: Shandong Daxue Xuebao, Ziran Kexueban (1998), 33(2), 201-205
CODEN: SDXKEU; ISSN: 0559-7234
PUBLISHER: Shandong Daxue
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Synthesis, IR spectra and thermoanal. of bis-(1-phenyl-3-methyl-4-benzoylpyrazolone-5)palladium(II) were reported. Kinetic parameters were obtained from anal. of the TG, DTG curves by integral and differential methods. The possible reaction mechanism was suggested by comparison with the kinetic parameters.

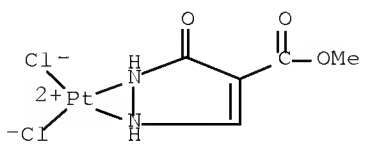
IT 72585-53-6P
(thermal anal. of bis[1-phenyl-3-methyl-4-benzoylpyrazolone-5]palladium(II))
RN 72585-53-6 HCA
CN Palladium, bis[4-(benzoyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-

pyrazol-3-onato-κO3]- (CA INDEX NAME)

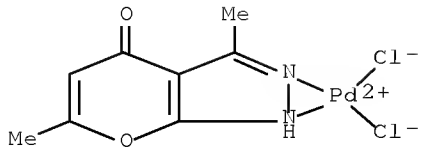


CC 67-3 (Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms)
Section cross-reference(s): 69, 78
IT 72585-53-6P
(thermal anal. of bis[1-phenyl-3-methyl-4-benzoylpyrazolone-5]palladium(II))

L20 ANSWER 10 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 123:159338 HCA Full-text
ORIGINAL REFERENCE NO.: 123:28063a,28066a
TITLE: Studies on platinum(II) and palladium(II) complexes of some substituted pyrazole-5-ones, pyrazoles, (hydroxyaryl)pyrazoles and pyranopyrazole
AUTHOR(S): Al-Allaf, Talal A. K.; Al-Bayati, Redha I. H.
CORPORATE SOURCE: College of Science, University of Mosul, Mosul, Iraq
SOURCE: Asian Journal of Chemistry (1995), 7(3), 465-70
CODEN: AJCHEW; ISSN: 0970-7077
PUBLISHER: Asian Journal of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The coordination behavior of several pyrazole-5-ones and pyrazoles derivs. with Pt(II) and Pd(II) metals are reported by the isolation and characterization of the resulting complexes. These complexes possess a square planar structure (cis-form) as revealed from IR and NMR spectral data. The ligands are coordinated mainly through the N-N linkage of the pyrazole ring.
IT 166898-94-8P 166899-03-2P
(preparation of)
RN 166898-94-8 HCA
CN Platinum, dichloro(methyl 2,3-dihydro-3-oxo-1H-pyrazole-4-carboxylate-N1,N2)-, (SP-4-3)- (9CI) (CA INDEX NAME)

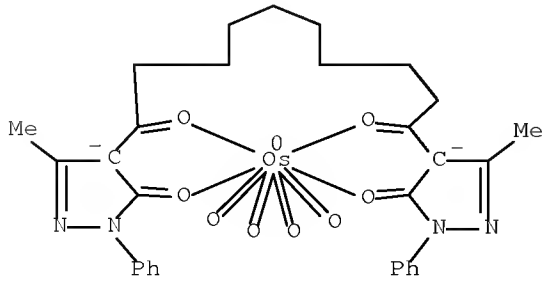


RN 166899-03-2 HCA
CN Palladium, dichloro(3,6-dimethylpyrano[2,3-c]pyrazol-4(1H)-one-N1,N2)-, (SP-4-3)- (9CI) (CA INDEX NAME)



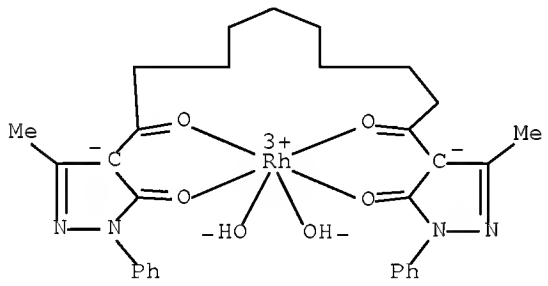
CC 78-7 (Inorganic Chemicals and Reactions)
IT 166898-93-7P 166898-94-8P 166898-95-9P 166898-96-0P
166898-97-1P 166898-98-2P 166898-99-3P 166899-00-9P 166899-01-0P
166899-02-1P 166899-03-2P 166899-04-3P
(preparation of)
OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L20 ANSWER 11 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 115:222118 HCA Full-text
ORIGINAL REFERENCE NO.: 115:37629a,37632a
TITLE: Polarographic adsorptive wave of osmium(VIII)-4,4'-decanedioylbis(1-phenyl-3-methyl-5-pyrazolone) (DBPMP) complex by using 1.5 order differential technique
AUTHOR(S): Lu, Wen; Wang, Zhaizhong
CORPORATE SOURCE: Dep. Chem., Yunnan Univ., Kunming, 650091, Peop. Rep. China
SOURCE: Fenxi Shiyanshi (1990), 9(2), 1-5
CODEN: FENSE4; ISSN: 1000-0720
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB In the 0.2 mol/L NaOH solution containing 3.3+10-5 mol/L DBPMP, a sensitive adsorptive wave of Os(VIII)-DBPMP complex was obtained by using single-sweep polarog. The peak potential is -0.79 V(vs. SCE). The peak height of 1.5 order derivative wave is linearly proportional to the Os(VIII) concentration in the range from 1+10-8 to 1+10-5 mol/L. In the solution, the composition of the complex was determined as [OsO4(DBPMP)]2-. The electrode process and mechanism were studied. It shows that the complex is adsorbed onto the DME; the organic moiety of the complex reduces irreversibly, and the reduced product is also adsorbed to the DME.
IT 136901-58-1
(polarog. of)
RN 136901-58-1 HCA
CN Osmate(2-), [1,10-bis(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)-1,10-decanedionato(2-)-O,O',O'',O''']tetraoxo- (9CI) (CA INDEX NAME)



CC 79-6 (Inorganic Analytical Chemistry)
Section cross-reference(s): 72
IT 136901-58-1
(polarog. of)

L20 ANSWER 12 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 114:198653 HCA Full-text
ORIGINAL REFERENCE NO.: 114:33271a,33274a
TITLE: Study on the polarographic adsorptive complex wave of rhodium(III)-DBPMP complexone
AUTHOR(S): Lu, Wen; Wang, Zaizhong
CORPORATE SOURCE: Dep. Chem., Yunnan Univ., Kunming, Peop. Rep. China
SOURCE: Guijinshu (1989), 10(3), 31-9
CODEN: GUIJE7; ISSN: 1004-0676
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB 4,4'-Decanedioylbis[1-phenyl-3-methyl-5-pyrazolinone] (DBPMP) in LiCl-NaOH solution produced 2 cathodic reduction waves at -0.43 and -1.28 V, resp. After addition of Rh(III) the wave height of the 2 waves increased with increase of Rh(III) concentration There was a linearity between the wave height of the first wave with the concentration of Rh(III) in the range 6.0 + 10-9-1.0 + 10-7 mol/L. The UV and IR spectra showed the formation of a Rh-DBPMP complex. The composition of the complex was Rh(III):DBPMP = 1:1 and the stability constant was 1.26 + 106. The effect of surfactants (cetylpyridinium bromide, animal glue, Na dodecanesulfonate) and temperature on the waveheight was studied.
IT 133317-70-1
(IR and UV spectra and stability constant and polarog. of)
RN 133317-70-1 HCA
CN Rhodate(1-), [1,10-bis(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)-1,10-decanedionato(2-)-O,O',O'',O''']dihydroxy- (9CI) (CA INDEX NAME)



CC 79-6 (Inorganic Analytical Chemistry)
Section cross-reference(s): 68, 72
IT 133317-70-1
(IR and UV spectra and stability constant and polarog. of)

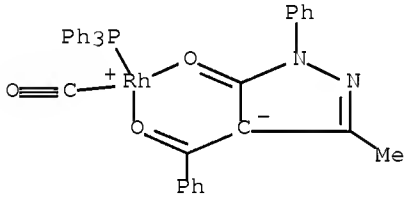
L20 ANSWER 13 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 103:123680 HCA Full-text
ORIGINAL REFERENCE NO.: 103:19789a,19792a
TITLE: Rhodium and iridium complexes containing the anion of 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone, a sophisticated analog of β-diketones
AUTHOR(S): Bonati, Flavio; Oro, Luis A.; Pinillos, M. Teresa

CORPORATE SOURCE: Dip. Sci. Chim., Univ. Camerino, Camerino, 62032, Italy
SOURCE: Polyhedron (1985), 4(2), 357-64
CODEN: PLYHDE; ISSN: 0277-5387
DOCUMENT TYPE: Journal
LANGUAGE: English

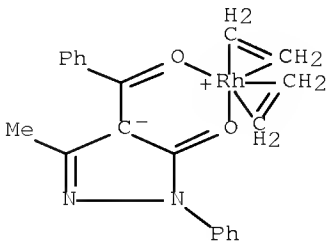
AB Several (diolefin)M(A) complexes (M = Rh, Ir; diolefin = e.g. 1,5-cyclooctadiene, 2,5-norbornadiene; AH = 1-phenyl-3-methyl-4-benzoyl-5-pyrazolone, a very stable asym. analog of acetylacetone) were prepared In these complexes the diolefin could be replaced by one mole of (Ph2PCH2CH2)2, two of CO or of PPh3, or three of CNCMe3, whereas 1,10-phenanthroline displaced the chelating ligand to yield [(cyclooctadiene)Rh(phen)]+ (A)-. Some compds. X-Y (X-Y = iodine or MeI) added oxidatively yielding the corresponding trivalent species. Using 31P NMR spectra the presence of the expected steric isomers was detected in (Ph3P)(CO)Rh(A) and in (Ph3P)(CO)Rh(A)(X)(Y).

IT 98063-63-9P 98063-64-0P 98063-65-1P
98063-67-3P 98063-68-4P 98063-69-5P
98063-70-8P 98063-71-9P 98063-72-0P
98063-86-6P 98091-97-5P 98091-98-6P
98091-99-7P 98092-00-3P 98092-01-4P
98092-03-6P 98092-04-7P 98092-05-8P
98104-43-9P 98111-79-6P
(preparation of)

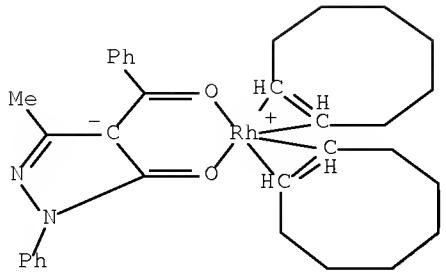
RN 98063-63-9 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')carbonyl(triphenylphosphine)-, (SP-4-2)- (9CI) (CA INDEX NAME)



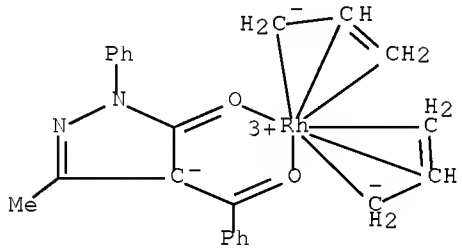
RN 98063-64-0 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')bis(η2-ethene)- (9CI) (CA INDEX NAME)



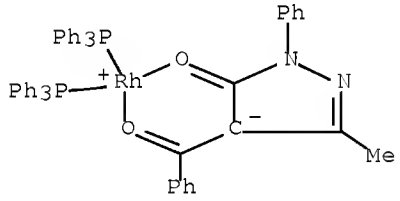
RN 98063-65-1 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')bis[(1,2-η)-cyclooctene]- (9CI) (CA INDEX NAME)



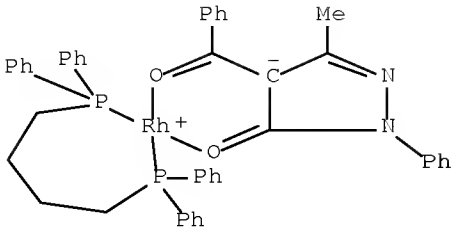
RN 98063-67-3 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')bis(η3-2-propenyl)- (9CI) (CA INDEX NAME)



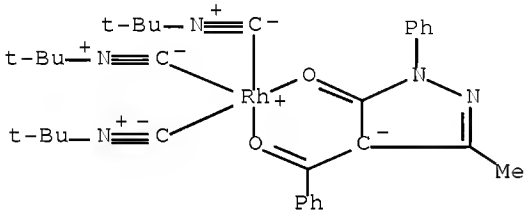
RN 98063-68-4 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')bis(triphenylphosphine)-, (SP-4-3)- (9CI) (CA INDEX NAME)



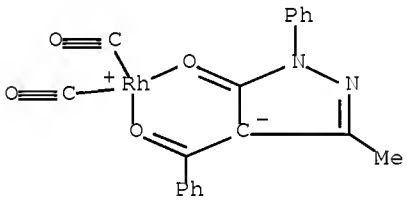
RN 98063-69-5 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[1,4-butanediylbis[diphenylphosphine]-P,P']-, (SP-4-3)- (9CI) (CA INDEX NAME)



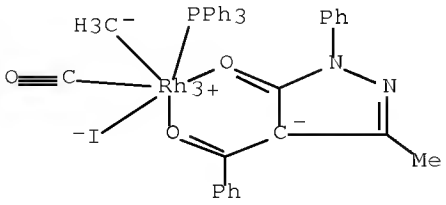
RN 98063-70-8 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')tris(2-isocyano-2-methylpropane)- (9CI) (CA INDEX NAME)



RN 98063-71-9 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')dicarbonyl-, (SP-4-3)- (9CI) (CA INDEX NAME)

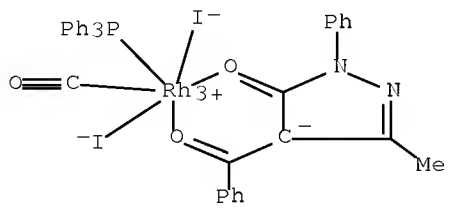


RN 98063-72-0 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')carbonyliodomethyl(triphenylphosphine)- (9CI) (CA INDEX NAME)

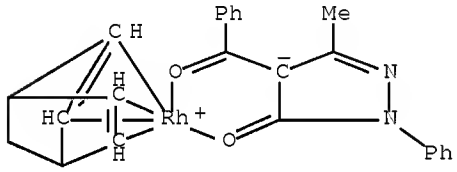


RN 98063-86-6 HCA

CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')carbonyldiiodo(triphenylphosphine)- (9CI) (CA INDEX NAME)

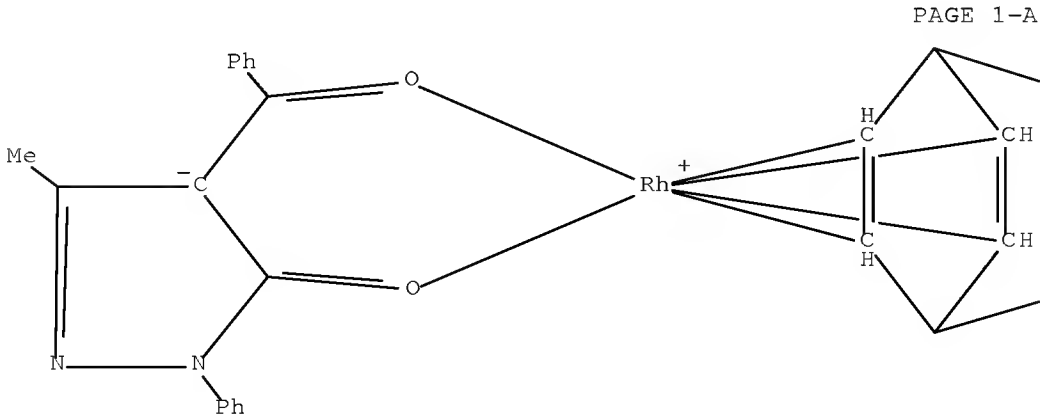


RN 98091-97-5 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(1,2,5,6-η)-1,5-cyclooctadiene]- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 98091-98-6 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(2,3,5,6-η)-bicyclo[2.2.1]hepta-2,5-diene]- (9CI) (CA INDEX NAME)

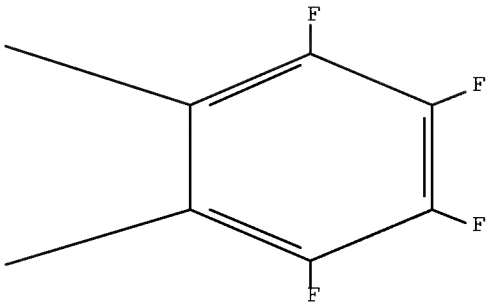


RN 98091-99-7 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(2,3,9,10-η)-5,6,7,8-tetrafluoro-1,4-dihydro-1,4-ethenonaphthalene]- (9CI) (CA INDEX NAME)

PAGE 1-A



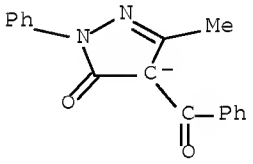
PAGE 1-B



RN 98092-00-3 HCA
CN Rhodium, bis(4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[μ-[(1,2,5,6-η:3,4,7,8-η)-1,3,5,7-cyclooctatetraene]]di- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 98092-01-4 HCA
CN Iridium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(1,2,5,6-η)-1,5-cyclooctadiene]- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 98092-03-6 HCA
CN Rhodium(1+), (2,2'-bipyridine-N,N')[(1,2,5,6-η)-1,5-cyclooctadiene]-, salt with 4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (1:1) (9CI) (CA INDEX NAME)

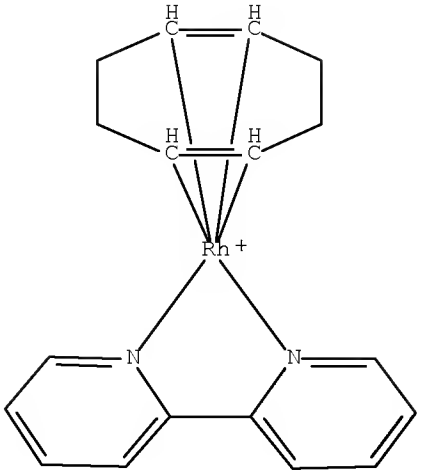
CM 1

CRN 98092-02-5
CMF C17 H13 N2 O2

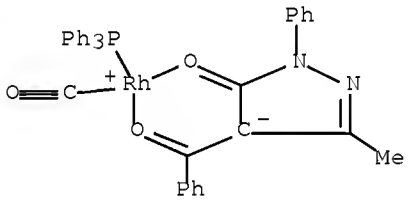


CM 2

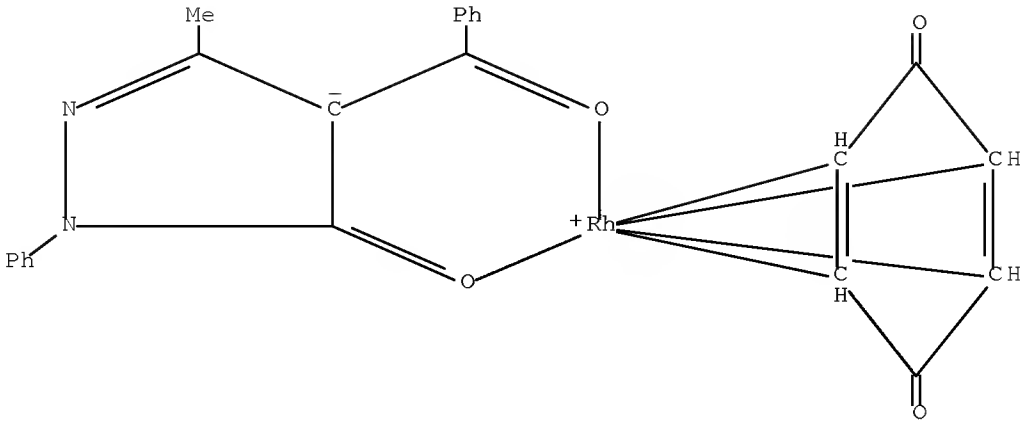
CRN 47101-12-2
CMF C18 H20 N2 Rh
CCI CCS



RN 98092-04-7 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(1,2,5,6-η)-1,5-cyclooctadiene]diiodo- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 98092-05-8 HCA
CN Iridium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(1,2,5,6-η)-1,5-cyclooctadiene]diiodo- (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 98104-43-9 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')carbonyl(triphenylphosphine)-, (SP-4-3)- (9CI) (CA INDEX NAME)

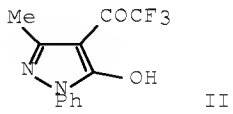


RN 98111-79-6 HCA
CN Rhodium, (4-benzoyl-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-O,O')[(2,3,5,6-η)-2,5-cyclohexadiene-1,4-dione]- (9CI) (CA INDEX NAME)



CC 29-13 (Organometallic and Organometalloidal Compounds)
IT 98063-63-9P 98063-64-0P 98063-65-1P
98063-66-2P 98063-67-3P 98063-68-4P
98063-69-5P 98063-70-8P 98063-71-9P
98063-72-0P 98063-86-6P 98091-97-5P
98091-98-6P 98091-99-7P 98092-00-3P
98092-01-4P 98092-03-6P 98092-04-7P
98092-05-8P 98104-43-9P 98111-79-6P
(preparation of)
OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L20 ANSWER 14 OF 16 HCA COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 97:109915 HCA Full-text
ORIGINAL REFERENCE NO.: 97:18285a,18288a
TITLE: Observations of 1-phenyl-3-methyl-4-trifluoroacetyl-5-pyrazolone. A promising extracting agent
AUTHOR(S): Okafor, Emmanuel Chukwuemeka
CORPORATE SOURCE: Dep. Chem., Univ. Nigeria, Nsukka, Nigeria
SOURCE: Talanta (1982), 29(4), 275-8
CODEN: TLNTA2; ISSN: 0039-9140
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



II

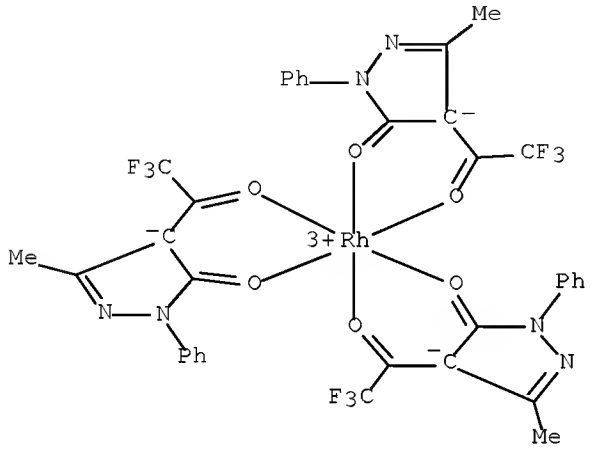
AB 4-Trifluoroacetyl-3-methyl-1-phenyl-5-pyrazolone (I), a promising metal extractant, was obtained in 91% yield by treating 1-phenyl-3-methyl-5-pyrazolone with (F3CO)2O in pyridine. Recrystn. studies revealed that only one tautomer, the enol II, can be isolated, sometimes with 1 mol. of water of crystallization, contrary to reports (Jensen, B. S., 1959) that a yellow enol

and a white keto tautomer can be obtained from n-hexane and aqueous EtOH, resp. The m.ps. and colors of some of the metal chelates of I are tabulated and, in the case of Hg(II) and Cu(II) chelates, differ from those reported by others. Solubility data for some of the metal chelates are also given.

IT 77259-30-4
(solubility and phys. properties of)

RN 77259-30-4 HCA

CN Rhodium, tris[2,4-dihydro-5-methyl-2-phenyl-4-(trifluoroacetyl)-3H-pyrazol-3-onato-O,O']- (9CI) (CA INDEX NAME)



CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 54

IT 77259-28-0 77259-29-1 77259-30-4 77259-31-5 77273-41-7
81714-06-9 81714-07-0 81714-08-1 81714-09-2 81714-14-9
81714-15-0 81999-83-9 81999-84-0 81999-88-4
(solubility and phys. properties of)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L20 ANSWER 15 OF 16 HCA COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 94:184733 HCA Full-text

ORIGINAL REFERENCE NO.: 94:30087a,30090a

TITLE: The metal complexes of heterocyclic β-diketones and their derivatives. Part VIII. Synthesis, structure, proton NMR and infrared spectral studies of the complexes of aluminum(III), iron(III), cobalt(III), rhodium(III), indium(III), and zirconium(IV) with 1-phenyl-3-methyl-4-trifluoroacetyl-5-pyrazolone (HPMTFP)

AUTHOR(S): Okafor, Emmanuel Chukwuemeka

CORPORATE SOURCE: Fac. Phys. Sci., Univ. Nigeria, Nsukka, Nigeria

SOURCE: Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie (1981), 36B(2), 213-17
CODEN: ZNBAD2; ISSN: 0340-5087

DOCUMENT TYPE: Journal

LANGUAGE: English

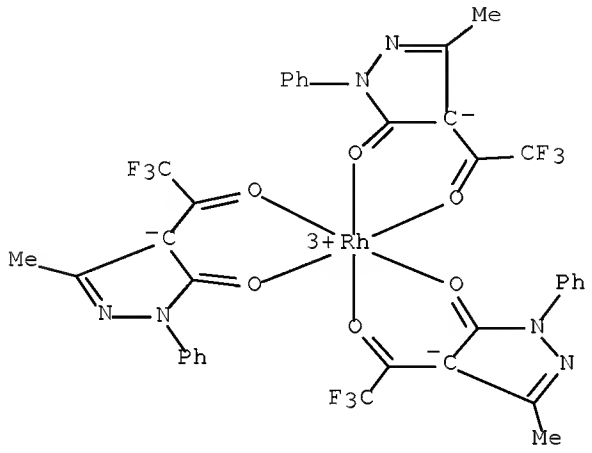
AB ML3 (M = Al, Fe, Co, Rh, In; HL = 1-phenyl-3-methyl-4-trifluoroacetyl-5-pyrazolone) and ZrL4 were prepared and characterized by elemental analyses,

conductivity and magnetic moment measurements, 1H NMR and IR spectroscopy. HL reacts as a bidentate enol forming neutral metal chelates. The 1H NMR spectra of chelates sufficiently soluble in deuterated NMR solvents were recorded and studied. The IR spectra were measured between 4000-200 cm-1 and assignments are proposed for the observed frequencies. The M-O stretching frequency follows the order: Al > Rh > Fe = Co = Zr > In.

IT 77259-30-4P
(preparation of)

RN 77259-30-4 HCA

CN Rhodium, tris[2,4-dihydro-5-methyl-2-phenyl-4-(trifluoroacetyl)-3H-pyrazol-3-onato-O,O']- (9CI) (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)

IT 77259-28-0P 77259-29-1P 77259-30-4P 77259-31-5P
77259-32-6P 77273-41-7P
(preparation of)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L20 ANSWER 16 OF 16 HCA COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 92:68757 HCA Full-text

ORIGINAL REFERENCE NO.: 92:11199a,11202a

TITLE: Extraction of palladium(II) with 1-phenyl-3-methyl-4-benzoylpyrazole-5-one

AUTHOR(S): Mirza, M. Y.; Bailey, R. T.

CORPORATE SOURCE: Dep. Chem., Univ. Nigeria, Nsukka, Nigeria

SOURCE: Journal of Inorganic and Nuclear Chemistry (1979), 41(5), 772-3
CODEN: JINCAO; ISSN: 0022-1902

DOCUMENT TYPE: Journal

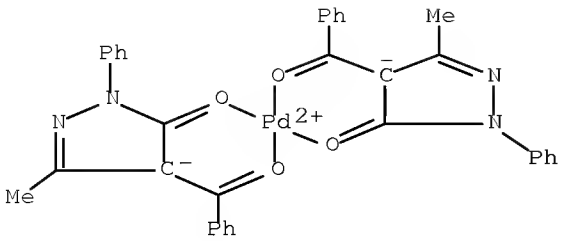
LANGUAGE: English

AB Pd pyrazolonate was prepared by extraction of PdCl2 from aqueous solution with 1-phenyl-3-methyl-4-benzoylpyrazol-5-one. IR and NMR spectra of the free ligand and Pd pyrazolonate suggested that the ligand coordinates through the 2 O atoms.

IT 72585-53-6P
(preparation of)

RN 72585-53-6 HCA

CN Palladium, bis[4-(benzoyl-κO)-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-onato-κO3]- (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)
IT 72585-53-6P
(preparation of)
OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)